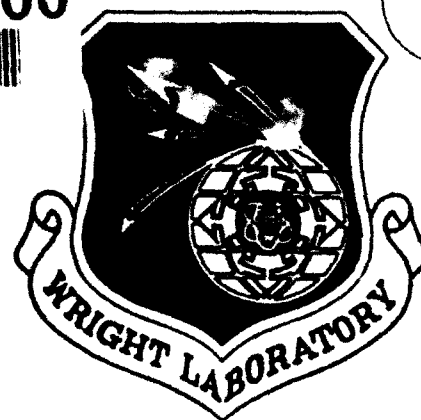


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**LIFT AND PITCHING MOMENT INDUCED ON JET STOVL  
AIRCRAFT HOVERING IN GROUND EFFECT - DATA REPORT**

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**JUNE 1993  
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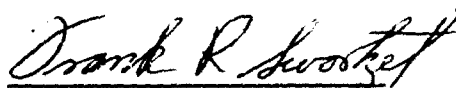
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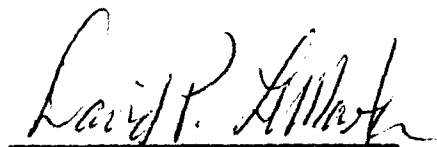
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# LIST OF SYMBOLS

$A_j$	Total jet exit area	sq ft, sq in
$b$	Wing span	2.25 ft
$c$	Reference chord	20.15 in
$C_D$	Drag coefficient, power off	$C_D = D/QS$
$C_L$	Lift coefficient, power off	$C_L = L/QS$
$C_m$	Pitching moment coefficient, power off	$C_m = M/QSc$
$C_p$	Pressure coefficient based on nominal jet dynamic pressure	$C_p = \Delta P/Q_j$
$C_{pq}$	Pressure coefficient based on free stream dynamic pressure	$C_p = \Delta P/Q$
$\nu_e$	Equivalent diameter of total jet area	ft, in
$d$	Jet diameter	ft, in
$\Delta D, dD$	Increment of drag induced by jet(s)	lb
$h$	Height above ground plane	ft, in
$\Delta L, dL$	Increment of lift induced by jet(s)	lb
$\Delta M, dM$	Increment of pitching moment induced by jet(s)	lb
NPR	Jet nozzle pressure ratio	
$\Delta P, dP$	Increment of pressure induced by jet(s)	psf
$Q$	Free stream dynamic pressure	psf
$Q_j$	Jet dynamic pressure, $Q_j = T/2A_j$	psf
$S$	Wing area	3.1875 sq ft
$T$	Total jet thrust	lb
$T_f$	Thrust of front jet(s)	lb
$T_a$	Thrust of rear jet	lb
$V_e$	Effective velocity ratio $V_e = (Q/Q_j)^{1/2}$	
$x$	Longitudinal distance from moment center	ft, in
$y$	Lateral station from centerline	ft, in

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## INTRODUCTION

In STOL operation the proximity of the ground significantly affects the flow field around an aircraft that is using power to augment wing lift. When the jets from a jet powered STOVL aircraft impinge on the ground a wall jet is formed flowing radially outward from the impingement points. When the outward flowing wall jets from two adjacent jets meet an up flow or fountain is formed. The effect that these flow fields have on the aerodynamics of the configuration depends on the height and speed at which the aircraft is operating.

There have been many studies and surveys of the effects of ground proximity (Ref. 1 to 6 for example) and most of the flow phenomena involved are relatively well understood. However the available methods for estimating these effects have been found to have significant weaknesses. Reference 7 surveyed and evaluated the available methods and suggested a program of experimental studies to broaden the data base and analysis to develop better methods.

The experimental suckdown and fountain effects portion of the program consisted of two parts; Hover tests at NASA Ames Research Center and the investigation of the effects of crossflow at the NASA Langley Research Center. The data from the investigation of the effects of crossflow are presented in the present report. Data from the hover investigation are presented in reference 8. Data from the ground vortex part of the program are presented in reference 9.

## MODEL AND EQUIPMENT

The tests were conducted in the 14 by 22 Foot Wind Tunnel at the NASA Langley Research Center. The initial plan was to test over the moving belt ground board but, as discussed later, problems were encountered with the belt and most of the test were conducted over the fixed ground board. However the boundary layer removal system, that is part of the belt system, was used during all tests to minimize the thickness of the boundary layer on the floor at the station of the model.

The configurations tested at forward speeds at Langley were the delta wing subset of the configurations tested in hover at Ames. The jet arrangements investigated are shown in figure 1. Interchangeable panels were used in the center section of the wing so that various jet arrangements could be tested. The planform of the delta wing and the center section panels is shown in figure 2, the general arrangement of the model is shown in figure 3 and photographs of the model mounted on the sting support system in the 14 by 22 foot tunnel are shown in figure 4. The nozzles used are shown in figure 5.

The parts used at Langley for the wing, nozzles and the center section panels were the same hardware used at Ames. However at Ames the high pressure air to power the jets was fed from above. This was not desirable for a wind tunnel test and for the Langley tests the nozzles were mounted on a plenum installed in the body as shown in figure 3. Air was brought through the sting support system into a 1 inch diameter flow distribution tube on the centerline of this plenum. Numerous small holes were drilled along each side of this tube to obtain a high pressure drop and distribute the air uniformly throughout the length of the plenum so that the flow to the front and rear nozzles would be equalized. Perforated flow distribution plates (the same plates used at Ames) were installed upstream of the nozzles (fig. 5) to obtain a good flow distribution at the nozzle exit. The nozzles were mounted on the plenum/sting-support system and therefore the thrust was not measured on the balance. A reference pressure was read on each nozzle and used with the calibrations made at Ames (ref. 8) to set and calculate the jet thrust and nozzle pressure ratio (NPR).

The aerodynamic loads were measured on the six component strain gage balance that was mounted on top of the plenum/sting-support as shown in figure 3. Because the nozzles were mounted on the support system and not metric to the balance a small gap (average of about 0.05 in.) was maintained between the nozzles and the holes in the center section panels to prevent fouling.

Pressure taps were installed on the lower surface of the left wing to measure the change in the pressures distributions induced by the jets. The x and y coordinants of the orifice locations for each configuration are included with the tabulations of the pressure data presented in Appendix B. The pressure taps were connected to five electronically scanned pressure units installed in the body.

## DATA REDUCTION

### Force Data

The power off force data are presented in conventional coefficient form. The power on data are presented as ratios of the increments of force (or moment) induced by the effect of jet operation to the jet thrust (or thrust multiplied by the effective jet diameter). With the jets operating the forces measured on the model were the sum of the jet induced effects and the forces that would be present power off. (The jet nozzles were mounted on the model support with a gap around the nozzles so that the jet thrust was not measured on the balance that measured the model forces.)

The jet induced increments were determined by subtracting the power off forces and moments from the measured data. That is;

$$\frac{\Delta L}{T} = \frac{L_{\text{measured}}}{T} - \frac{C_L q S}{T}$$

$$\frac{\Delta D}{T} = \frac{D_{\text{measured}}}{T} - \frac{C_D q S}{T}$$

$$\frac{\Delta M}{TD_o} = \frac{M_{\text{measured}}}{TD_o} - \frac{C_m q S c}{TD_o}$$

Where  $C_L$ ,  $C_D$  and  $C_m$  are the power off lift, drag and pitching moment coefficients measured in power off tests at the corresponding angle of attack and height.

All the power on data taken in this investigation were taken at zero angle of attack. The corresponding power off data used in reducing the data are shown in figure 6. Within the scatter of the data there appears to be no discernable effect of Reynolds number (dynamic pressures from  $Q=10$  to  $Q=60$ ). The power off increments subtracted from the data to obtain the jet induced increments were therefore taken as;

$$C_L = 0.061$$

$$C_D = 0.024$$

$$C_m = -0.028$$

All pitching moment data were transferred from the balance center to the lower surface of the model. The reference point for the power off data is station 16. For the power on increments the pitching moments were transferred to the midpoint between the fore and aft jets for the multiple jet configurations. For the single jet configurations the moments were transferred to the center of the jet. For the twin jet pair the data were transferred to the midpoint between the jets (station 12).

#### Pressure data

A complete pressure distribution was measured on the lower surface of the left wing for each force data point. The power off pressure data are nondimensionalized by dividing by the free stream dynamic pressure.

$$C_{pq} = P/Q$$

The power on pressure data are nondimensionalized by dividing by the jet dynamic pressure.

$$C_p = P/Q_j$$

For the present study the jet dynamic pressure is defined as;

$$Q_j = T/2A_j$$

The power off pressure data at zero angle of attack through the height and dynamic pressure range was similar when reduced to coefficient form. Typical power off pressure distributions are presented in figure 7 for selected heights at two dynamic pressures. All the power off data at zero angle of attack were averaged and these data are presented in figure 8. The positive pressure at the nose reducing rapidly to negative, the general level of positive pressure over most of the surface and the swing to negative pressures at the wing trailing edge appear to indicate the general trends. The variations from these levels are probably related to local effects at the orifice.

The jet induced increments of pressure coefficient were determined by subtracting the power off pressures from the measured data. That is;

$$\Delta C_p = \frac{\Delta P}{Q_j} - \frac{C_{pq,ave} Q}{Q_j}$$

The average power off data shown in figure 8 were used in the above expression to determining the jet induced increments. Unfortunately power off data were taken only for configuration I. Specific power off data were not available for the pressures on the interchangeable plates used to accommodate the other nozzle arrangement of the other configurations and it was necessary to use an average level of pressure coefficient of  $C_{pq,ave} = .03$  (fig. 8).

#### Effective velocity ratio

The effects of forward velocity are presented in terms of the ratio of the free stream velocity to an 'effective velocity' of the jet. The effective velocity ratio is defined, as is customary, as;

$$V_e = \sqrt{Q/Q_j}$$

#### PRESENTATION OF RESULTS

The results of the tests are presented in this report with minimum discussion and analysis. The force data are presented in Appendix A and the pressure data in Appendix B. Because of the problems encountered with the moving belt ground board (discussed later) the brief discussion below relates only to the data taken over the fixed ground board.



## Effect of Jet Arrangement

Figure 9 shows a comparison of the lift loss and pitching moments induced by the jet in hover and at transition speeds (effective velocity ratios of .06 and .15). Because of the very large ratio of planform area to jet area the suckdown induced at low heights dominates the lift loss comparison particularly in hover ( $V_e = 0$ ). The stronger fountain generated between the jets of the three jet configurations (conf. III and IV) and the rectangular jet configurations (conf. VI and VII) reduce the lift loss somewhat at the lowest heights however these configurations show somewhat more lift loss at transition speeds.

A similar comparison for the single jet case is shown in figure 10. This figure also includes the effects induced by the forward pair of jets of the three jet configurations (conf. III and IV) with the rear jets not operating. In hover ( $V_e = 0$ ) there is little difference between the circular and rectangular jets or effect of position on the lift loss. However at low heights there is a notable effect on pitching moments and the fountain generated between the side-by-side pair significantly reduces the hover ( $V_e = 0$ ) lift loss. At transition speeds there is a significant effect of jet shape and arrangement on both the lift loss and pitching moment.

## Effect of Nozzle Pressure Ratio

The investigation covered nozzle pressure ratios (NPR) of 2, 4 and 6. Figures 11 to 15 show that, in hover ( $V_e = 0$ ), there is little effect of NPR on lift loss and only a small effect on moments at low heights. At transition speeds the lift loss is reduced slightly at the higher nozzle pressure ratios. Most of the increments due to the effects of nozzle pressure ratio are only slightly larger than the differences between the repeatability runs shown in figure 16.

## Out of Ground Effect Data

The variation of the increments of lift and moment induced on configuration I out of ground effect are compared with those induced on the model of reference 10 in figure 17. The initial plan for the present investigation included using and modifying the model of reference 10, however the body of that model was too small to accommodate the various nozzle locations and configurations along with the balance and pressure transducers. A new model, with a significantly larger body was therefore built. The new model however retained the same planform as the model of reference 10 and configuration I had the same jet locations. The circular nozzles used in the present investigation were built from the same drawings as the nozzles for the model of reference 10. The agreement between the present data for configuration I and the corresponding data from the model of reference 10 is therefore gratifying.

## PROBLEMS ENCOUNTERED WITH GROUND SIMULATION

Past experience has shown that special techniques are required for the testing of powered lift models in close proximity to the ground. When the flow from the powered lift system impinges on the ground some of it flows forward against the free stream. If tests are made in a wind tunnel over a fixed ground board the forward flowing wall jet can penetrate further forward than it would in the real world because the drag of the fixed ground surface (which in the real world is moving aft relative to the wall jet) is reduced. Also the boundary layer between the ground surface and the free stream has less energy to oppose the wall jet. References 11 and 12 have shown that tests over a fixed ground board allow the ground vortex to move about 50 percent further forward than tests of the same model moving over the ground.

Ideally tests should be made with a moving model, however suitable moving model facilities with the speed, model size capacity and high pressure air flow were not available for this investigation. Turner (Ref. 13) showed that, for jet flap models, tests over a moving belt ground board gave the same results as moving model tests. The investigation of the effects of forward speed was therefore conducted in the 14 by 22 foot wind tunnel at the NASA Langley Research Center because a moving belt ground board was available in that facility.

However problems were encountered from the start of the tests of the Suckdown/Fountain effects model. At low heights the belt was observed to distort under the model as shown in figure 18. This distortion was caused by the jets holding the belt down at the impingement points and the suction pressures induced between the model and the ground pulling the belt up outboard of the jets. Because the belt was under tension fore and aft but not laterally longitudinal ridges formed as shown in figure 18. Because the tension on the belt changed with belt speed and the suction pressures changed with height the size and shape of these 'ridges' changed with the test conditions. The resulting changes in the ground surface shape significantly changed the forces induced in on the model. Unfortunately there was no practical way to quantify the shape of the ground surface and no way to correct for surface shape if it could have been quantified.

Another problem was encountered when the belt was stopped. At high tunnel speeds the belt began to lift off of its supporting plate just ahead of the rear roller as shown in figure 19. This problem is caused by the drag force on the belt caused by the free stream flowing over it. (At speeds of above 150 feet per second the belt would also begin to creep in the direction of the air flow.) This lifting of the belt caused an upwash and an induced camber on the model which affected the data.

The amount of lifting and therefore the effect on the data was inconsistent and probably changed with time, perhaps because the

belt stretched with use. Figure 20 compares the power-off data taken over the belt with that taken over a fixed ground plane and with data from the model of reference 10. In fig. 20 the first data taken over the belt (run 401,) show higher lift and more nose down moment at the higher angles of attack but are in good agreement with the fixed ground board data at zero angle of attack. These data were taken at a tunnel dynamic pressure of 30 lb/sq ft and a height that varied from 25 inches at zero angle of attack to about 48 inches at 10 degrees angle of attack. The model of reference 10 had the same planform as the present model but a much smaller body and a circular arc airfoil. The wing of the present model was a flat plate with a beveled leading and trailing edge.

Power off data over the belt taken later (fig. 21) at zero angle of attack and at a tunnel dynamic pressure of 35 lb/sq ft (corresponding to a velocity ratio of .15) show the power off lift was about doubled over most of the height range. At the lower dynamic pressures the belt did not lift and the data taken over the belt is in good agreement with that taken over the fixed ground board.

At the beginning of the program several configurations were tested over the belt with the belt running at the tunnel speed and with the belt stopped. No way was found to eliminate the belt distortions shown in figures 18 and 19 and it was therefore decided to remove the belt and run the program over the fixed ground board.

The jet induced increments for configuration I (circular jets at stations 12 and 20 inches) for the belt running at the tunnel speed, the belt stopped and for the fixed ground board are shown in figure 22. The jet induced lift loss and pitching moment increments at the lower heights are greatest for the fixed ground board and least for the belt stopped. If the belt distortions shown in figures 18 and 19 hadn't occurred there would be no change in the data. The belt running data falls between the fixed ground board and the belt stopped data, probably because the effect of the tension to drive the belt had reduced the distortion. Figure 23 (also shown as fig.A-27) shows that, for the zero forward velocity condition, running the belt moves the data closer to the fixed ground board data; probably because the increased tension imposed by driving the belt reduced the belt distortion. Unfortunately pressure distribution data for the belt running and belt stopped tests, which could have helped to explain these results, were lost because of recording problems during the early part of the test program (belt running and belt stopped tests) and are therefore not available for comparison.

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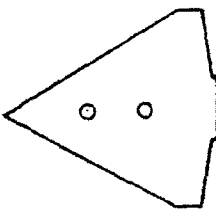
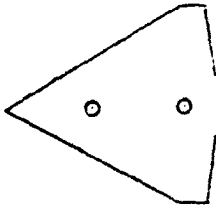
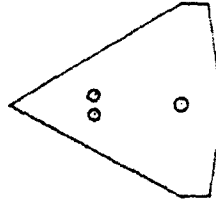
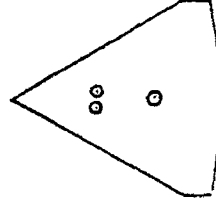
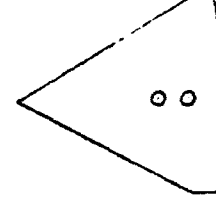
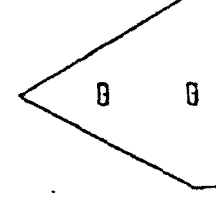
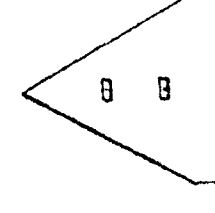
Conf.	Front Jet(s) Size Station	Rear Jet Size Station	Moment Ref. Point Station	
I	1.2" dia. 12	1.2" dia. 20	16	
II	1.2" dia. 12	1.2" dia. 24	18	
III	.85" dia. 12	.85" dia. 24	18	
IV	.85" dia. 12	.85" dia. 20	16	
V	1.2" dia. 20	1.2" dia. 24	22	
VI	.613"x1.84" 12	.613"x1.84" 24	18	
VII	.613"x1.84" 12	.613"x1.84" 20	16	

Figure 1.- Configurations Tested.

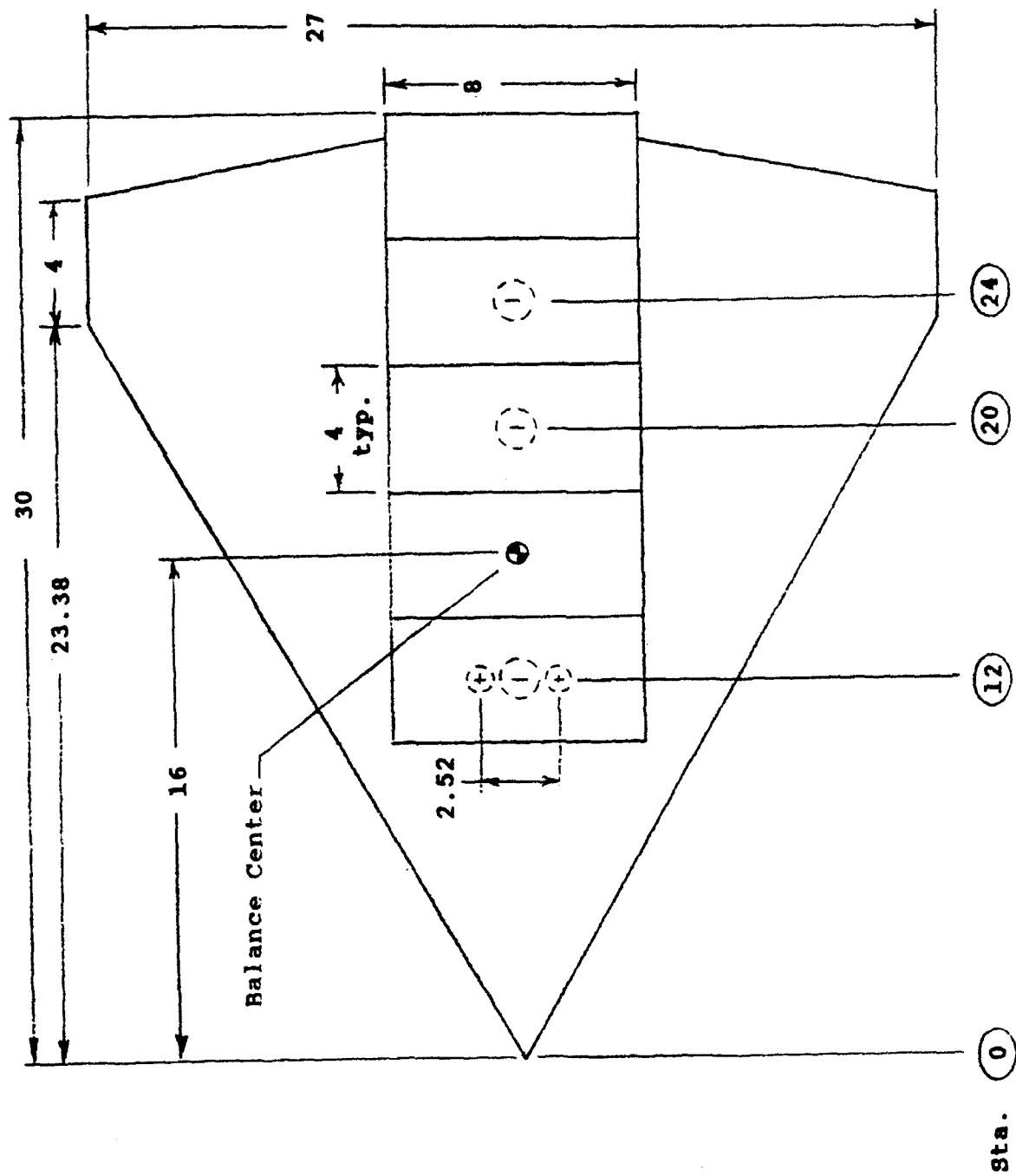
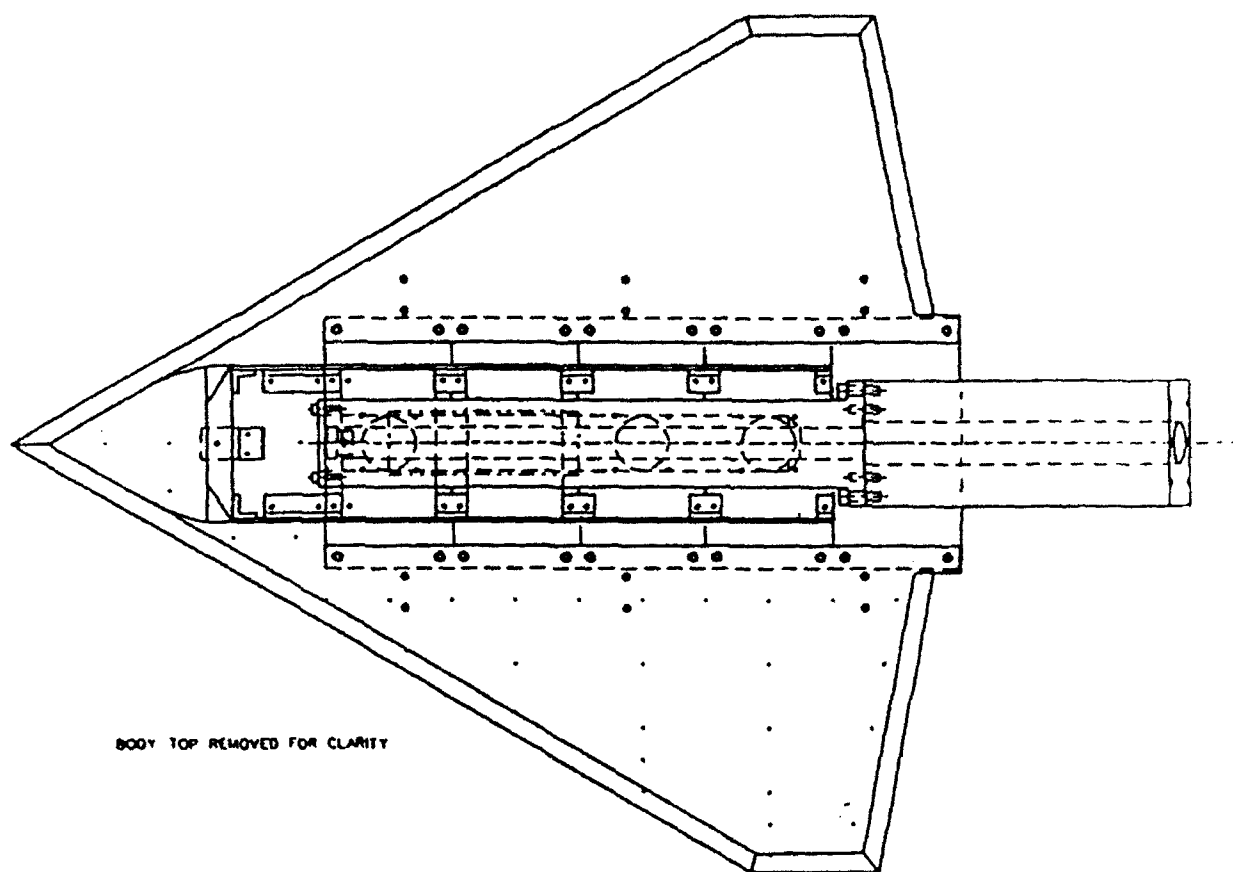


Figure 2.- Delta wing planform and jet locations, dimensions in inches.



BODY TOP REMOVED FOR CLARITY

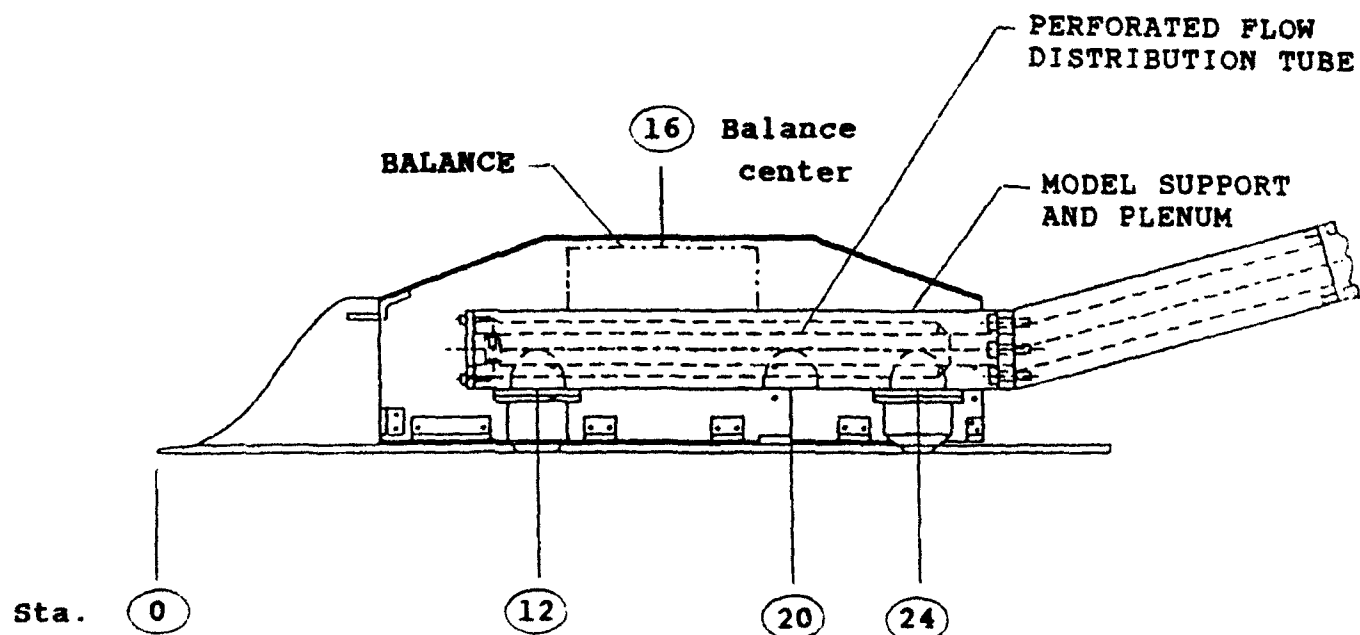


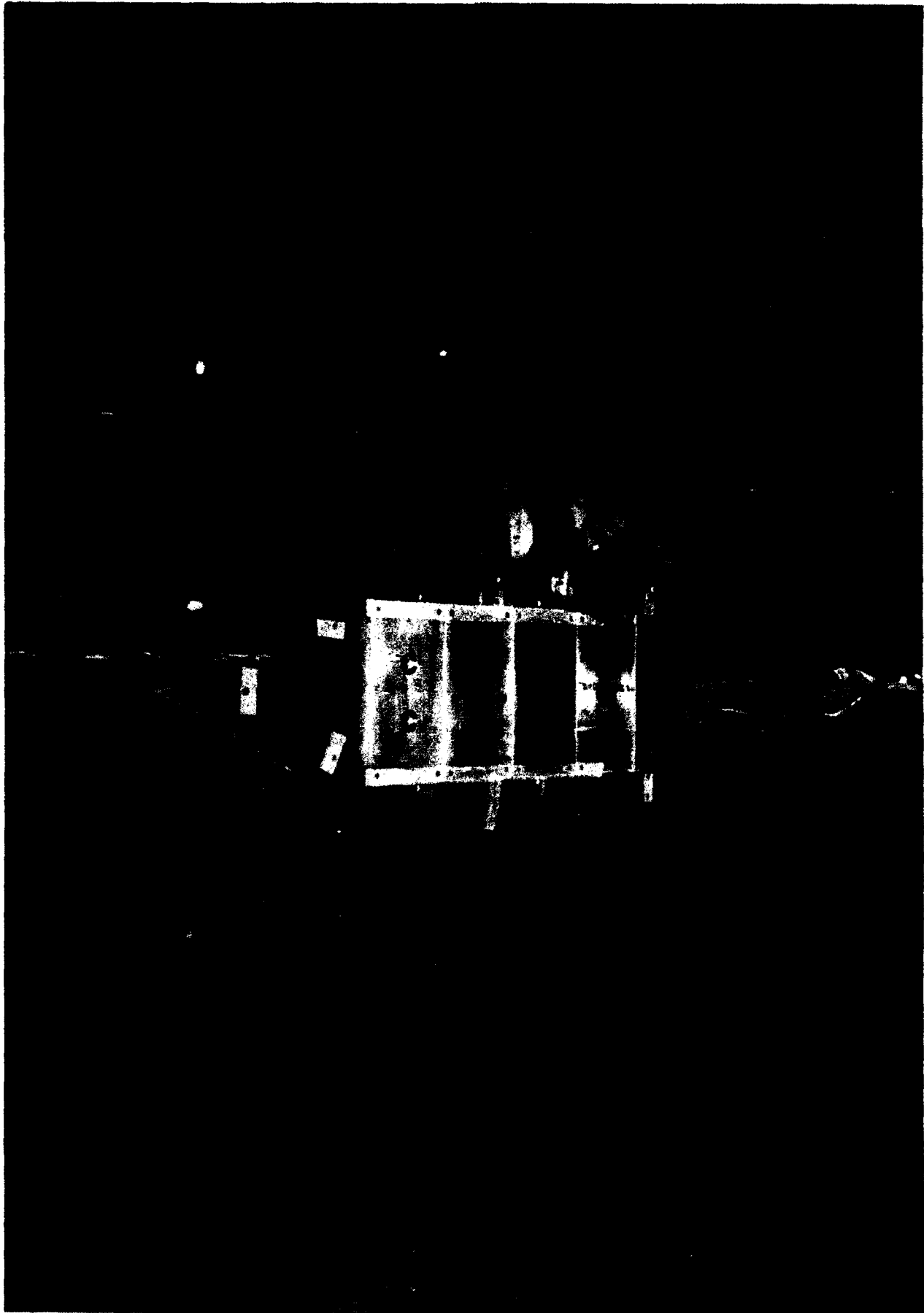
Figure 3.- General arrangement of the model.



a) Top view showing model over fixed ground board.

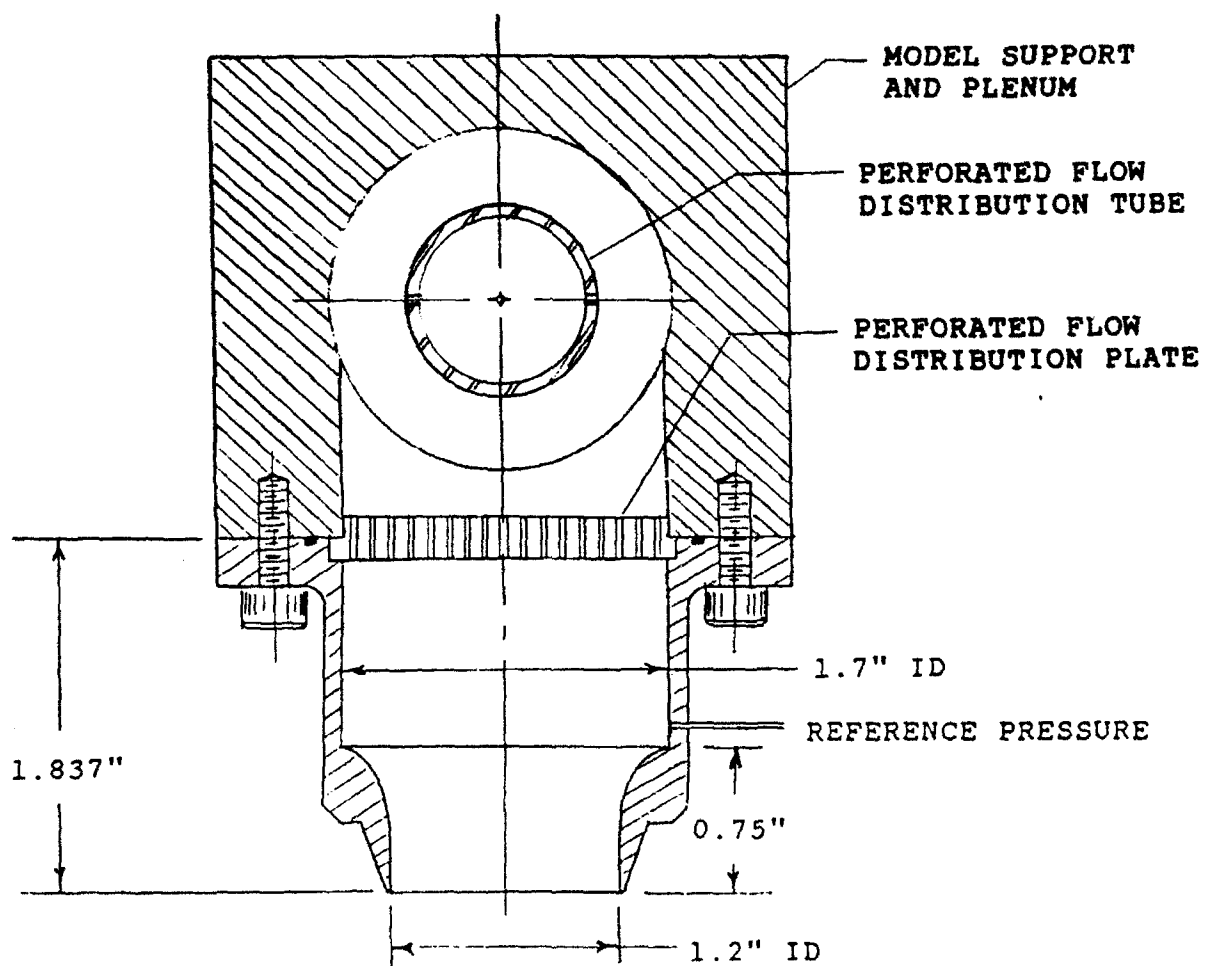
Figure 4.- Photographs of model installed on sting support system in the  
Langley 14 by 22 foot tunnel.





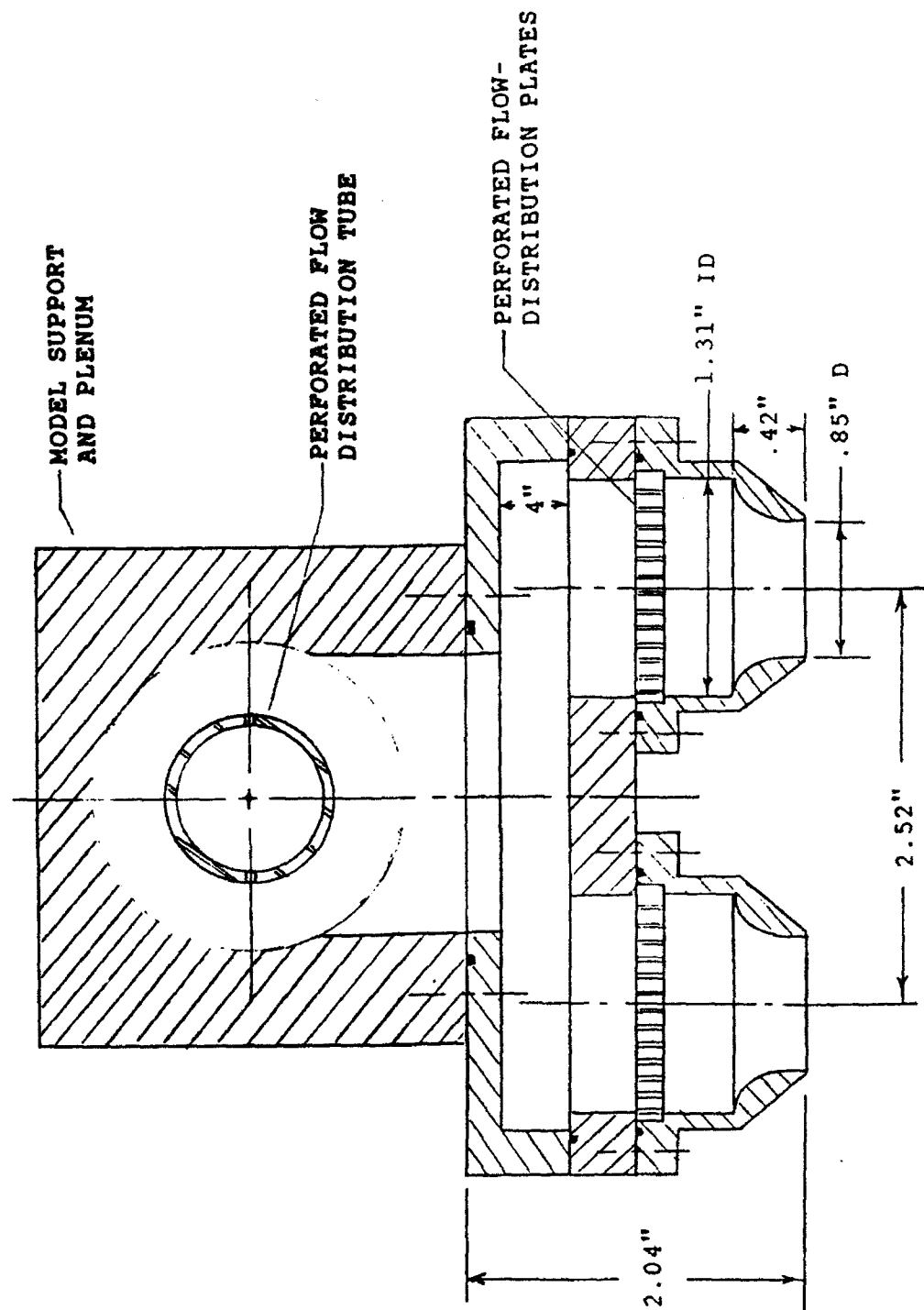
b) Bottom view showing configuration III.

Figure 4.- Concluded.



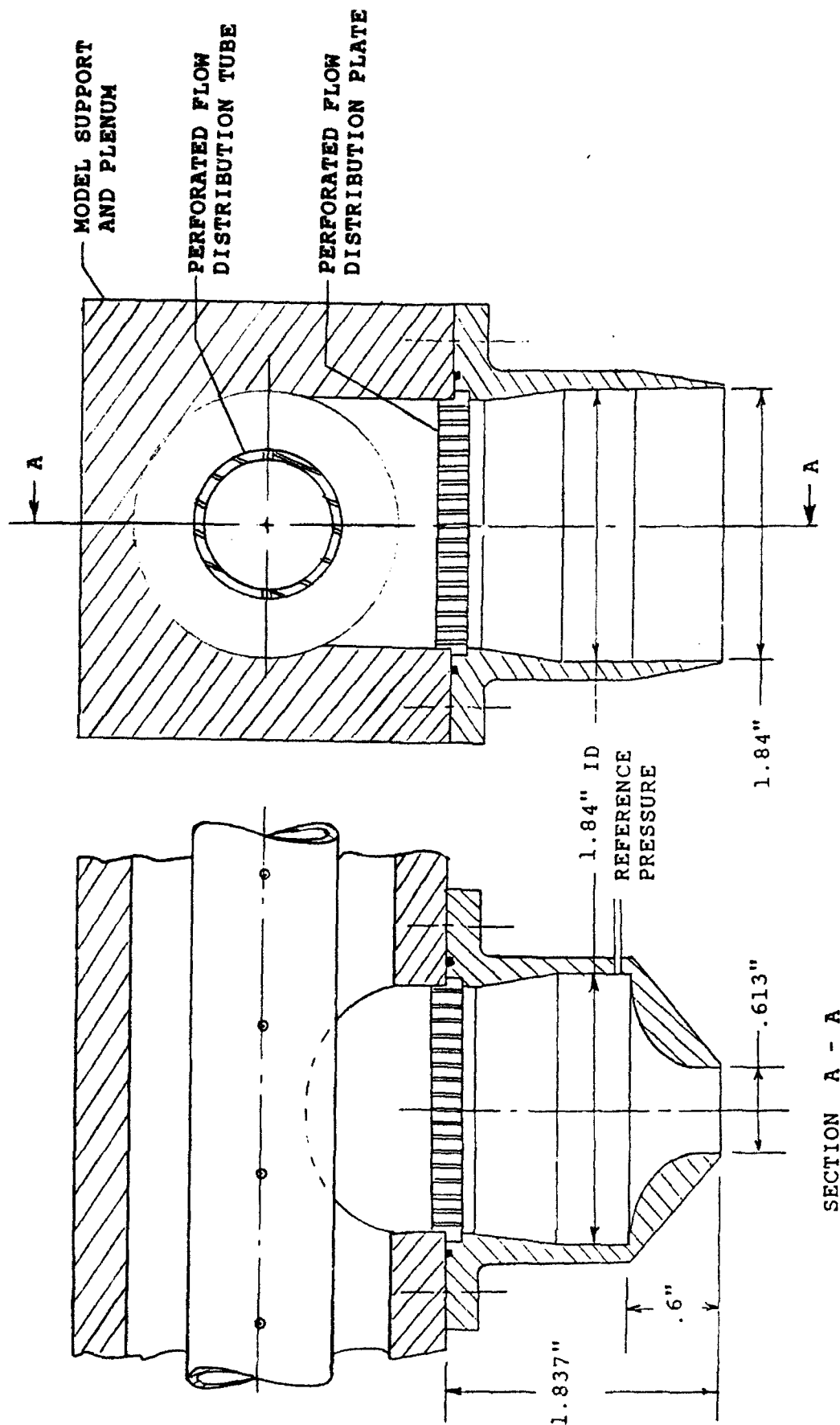
a) Basic circular nozzle.

Figure 5.- Nozzle details.



b) 0.85" dia. side-by-side nozzle pair.

Figure 5.- Continued.



c) Rectangular nozzles.

Figure 5.- Concluded.

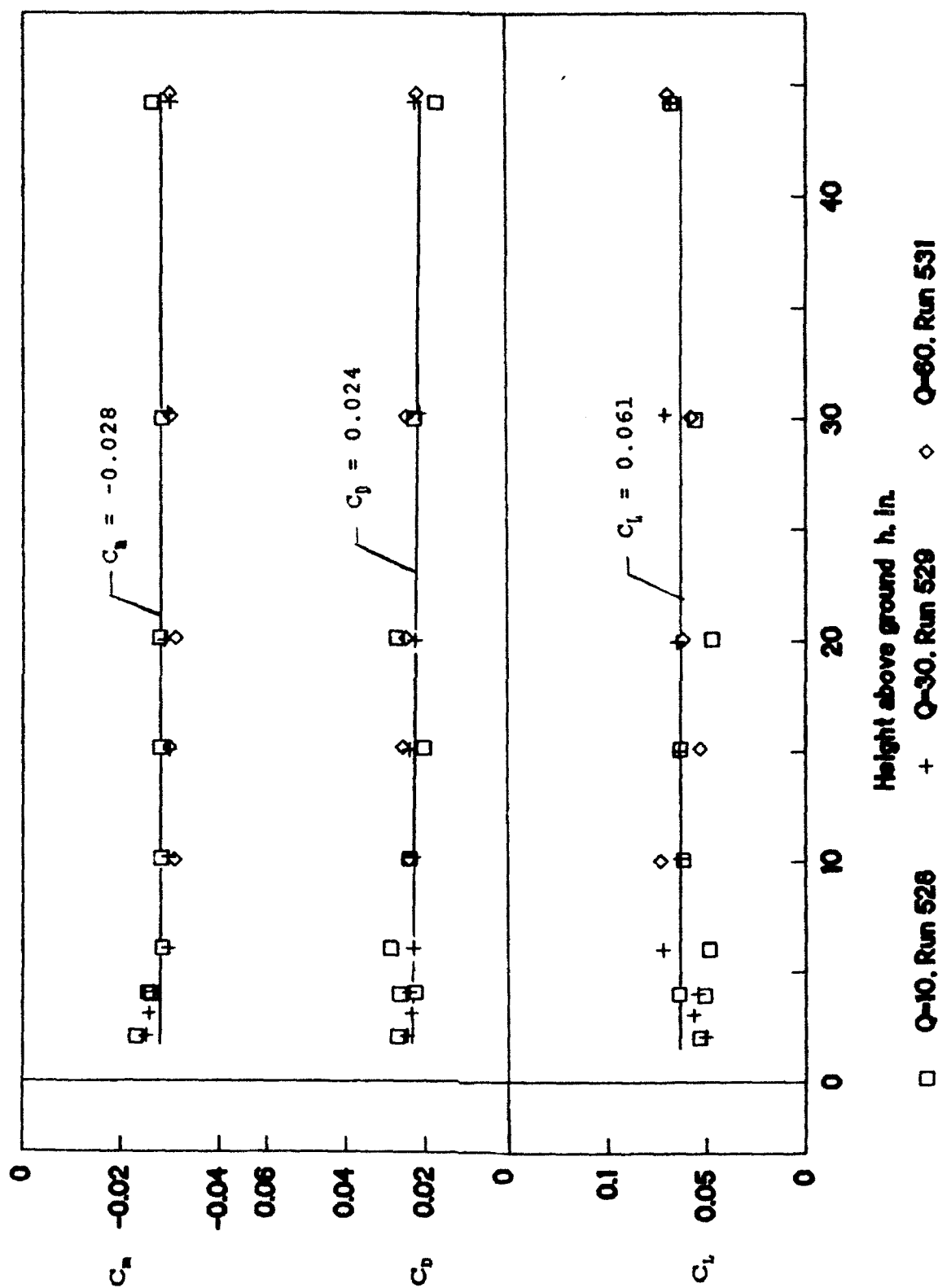


Figure 6.- Power off data taken over the fixed ground board at zero angle of attack.

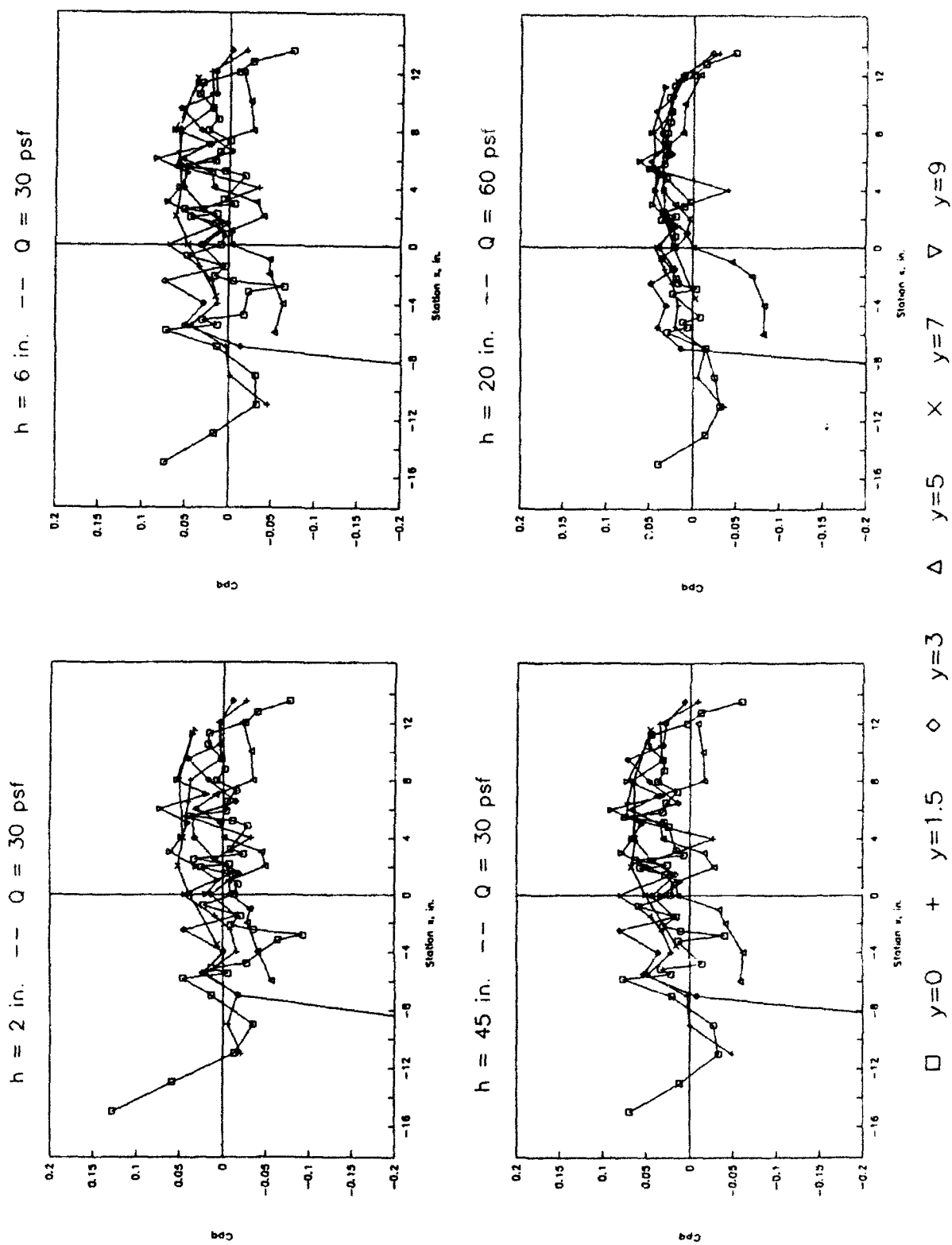
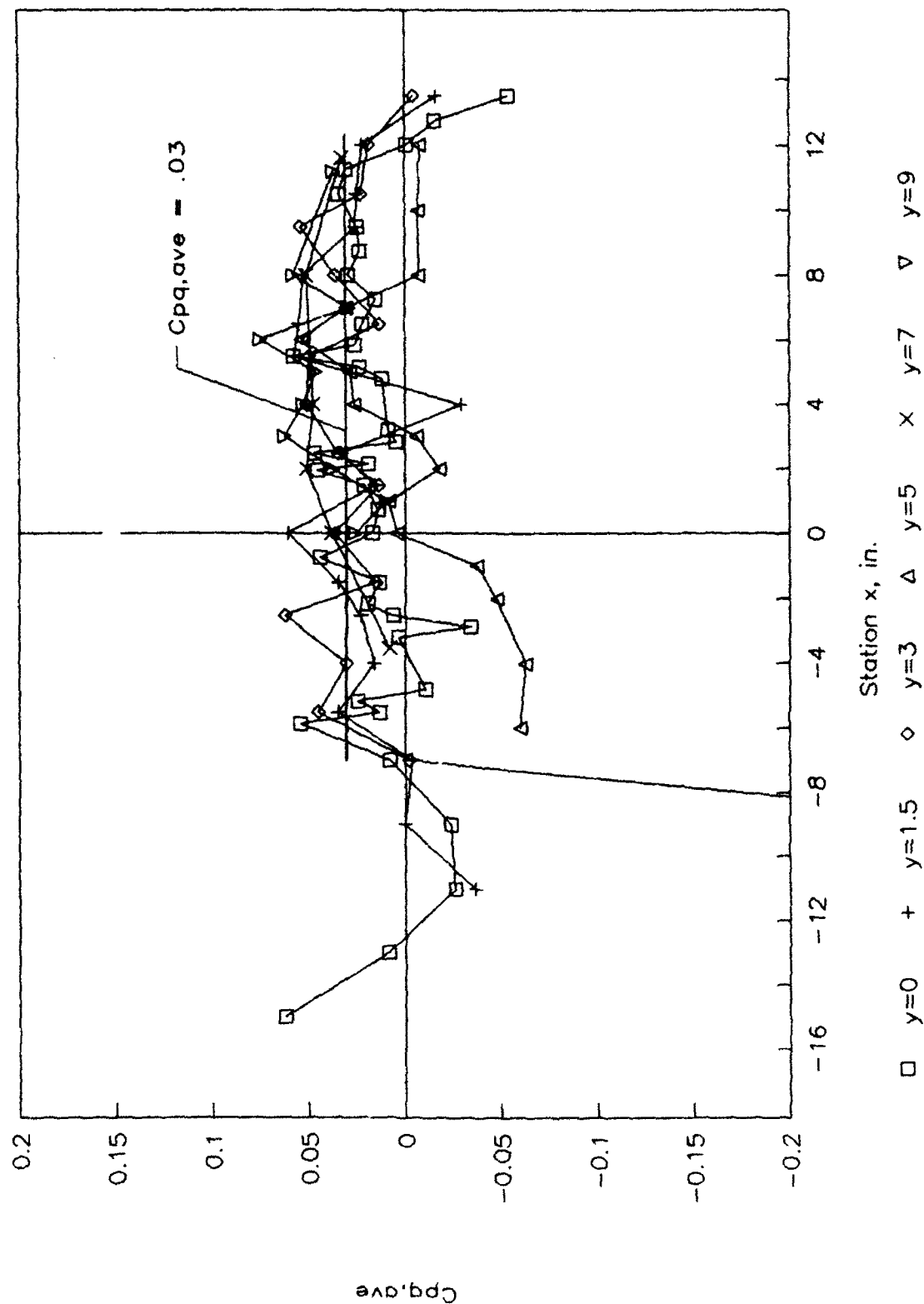
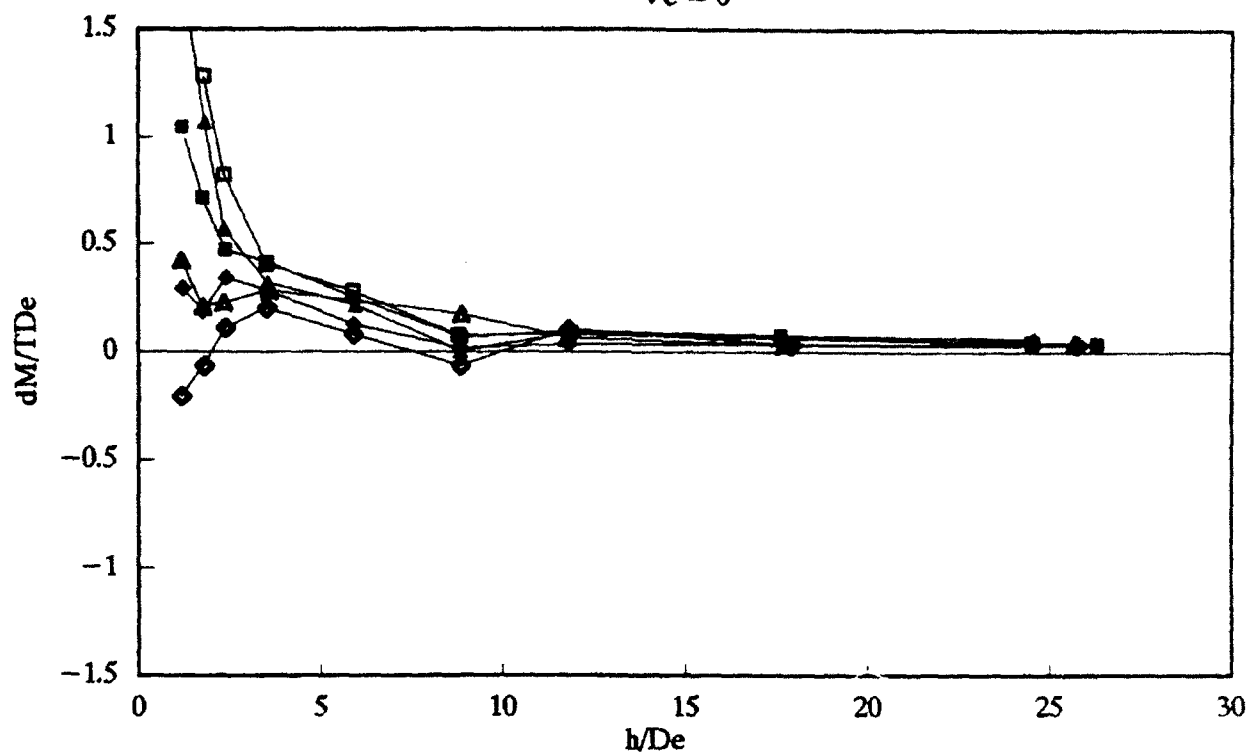


Figure 7.- Typical power off pressure distributions;  
Configuration I.

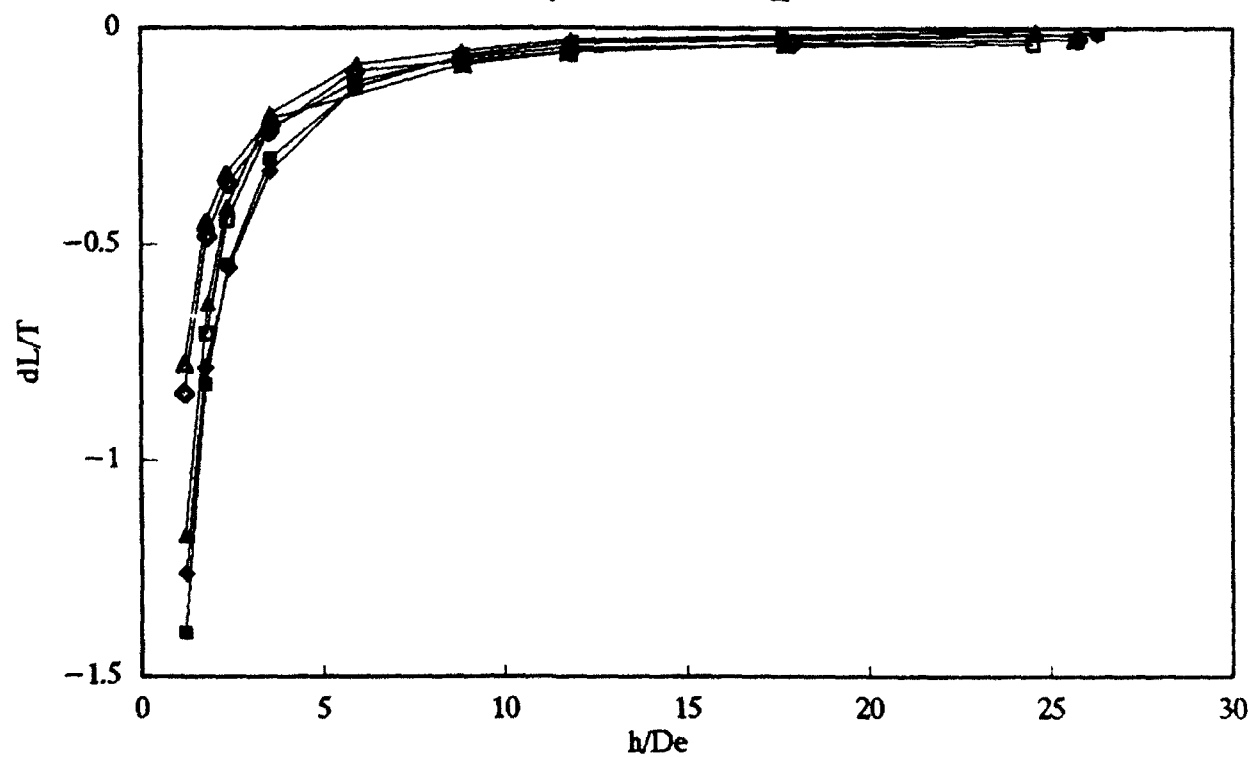
# AVERAGE POWER OFF PRESSURES



CONFIGURATION COMPARISON - Both Jets - NPR = 2  
 $V_e = 0$



CONF. I    CONF. II    CONF. III  
 CONF. IV    CONF. VI    CONF. VII

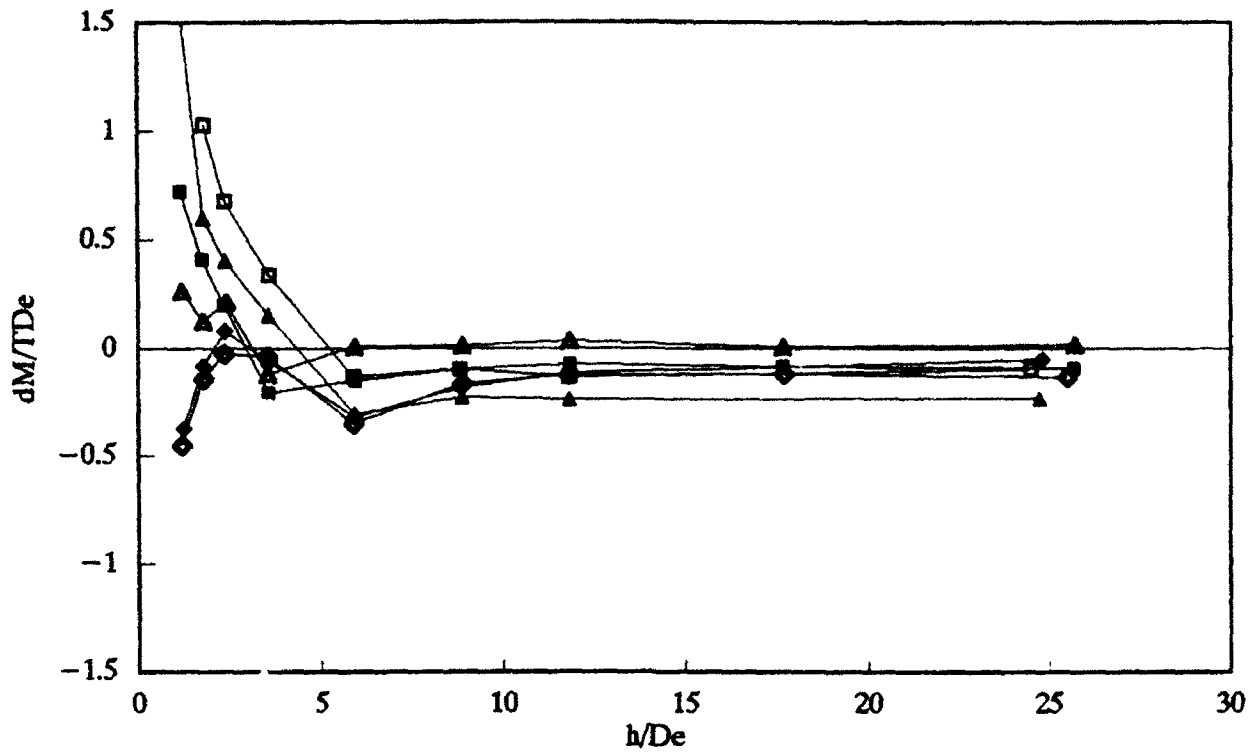


a)  $V_e = 0$

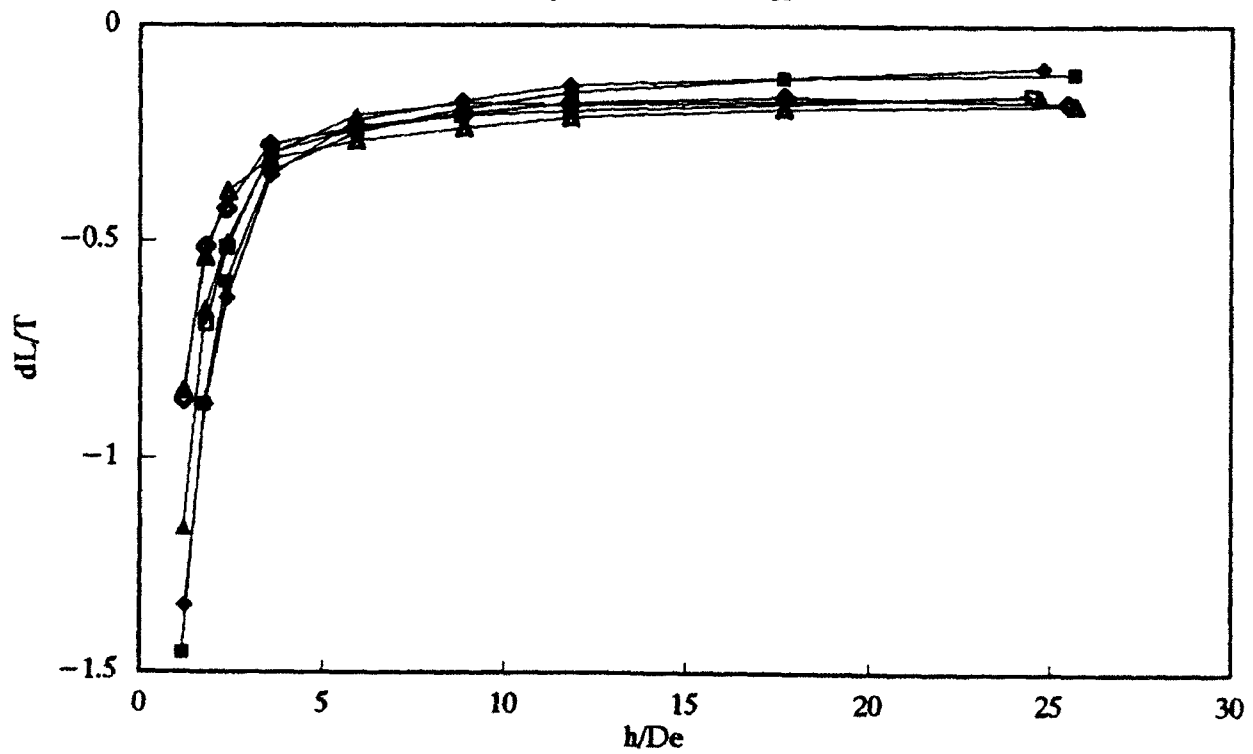
Figure 9.- Comparison of the jet induced increments of lift and pitching moments for six of the configurations, Both jets - NPR = 2 - Fixed ground board.



CONFIGURATION COMPARISON - Both Jets - NPR = 2  
 $V_e = .06$



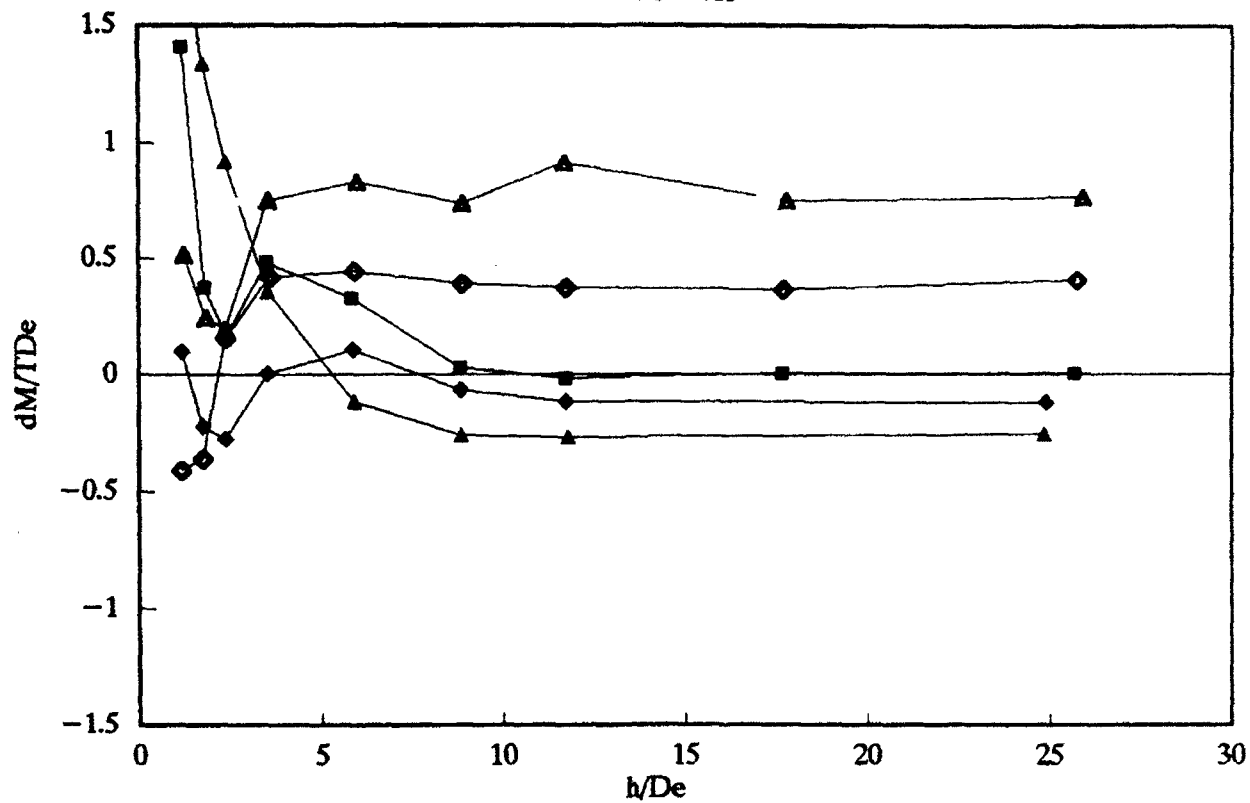
CONF. I    CONF. II    CONF. III  
 CONF. IV    CONF. VI    CONF. VII



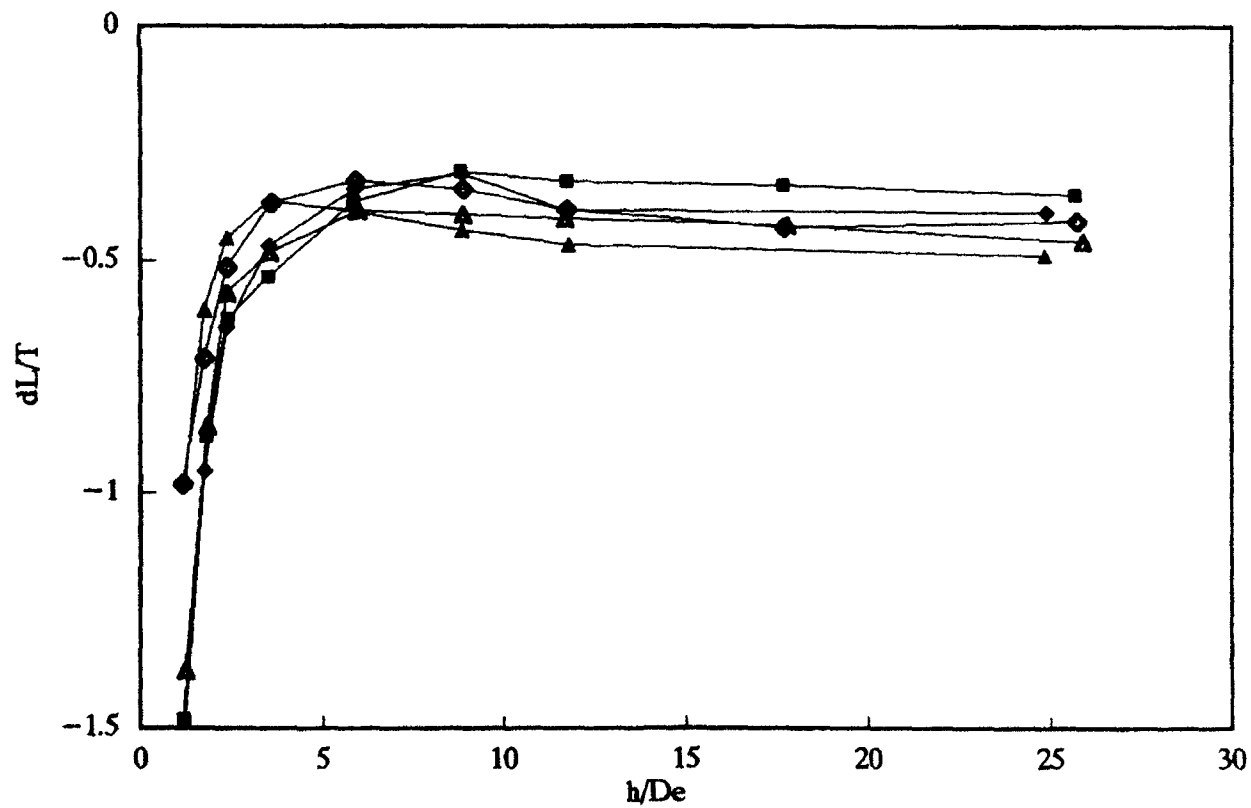
b)  $V_e = .06$

Figure 9.- Continued.

CONFIGURATION COMPARISON -- Both Jets -- NPR = 2  
 $V_e = .15$



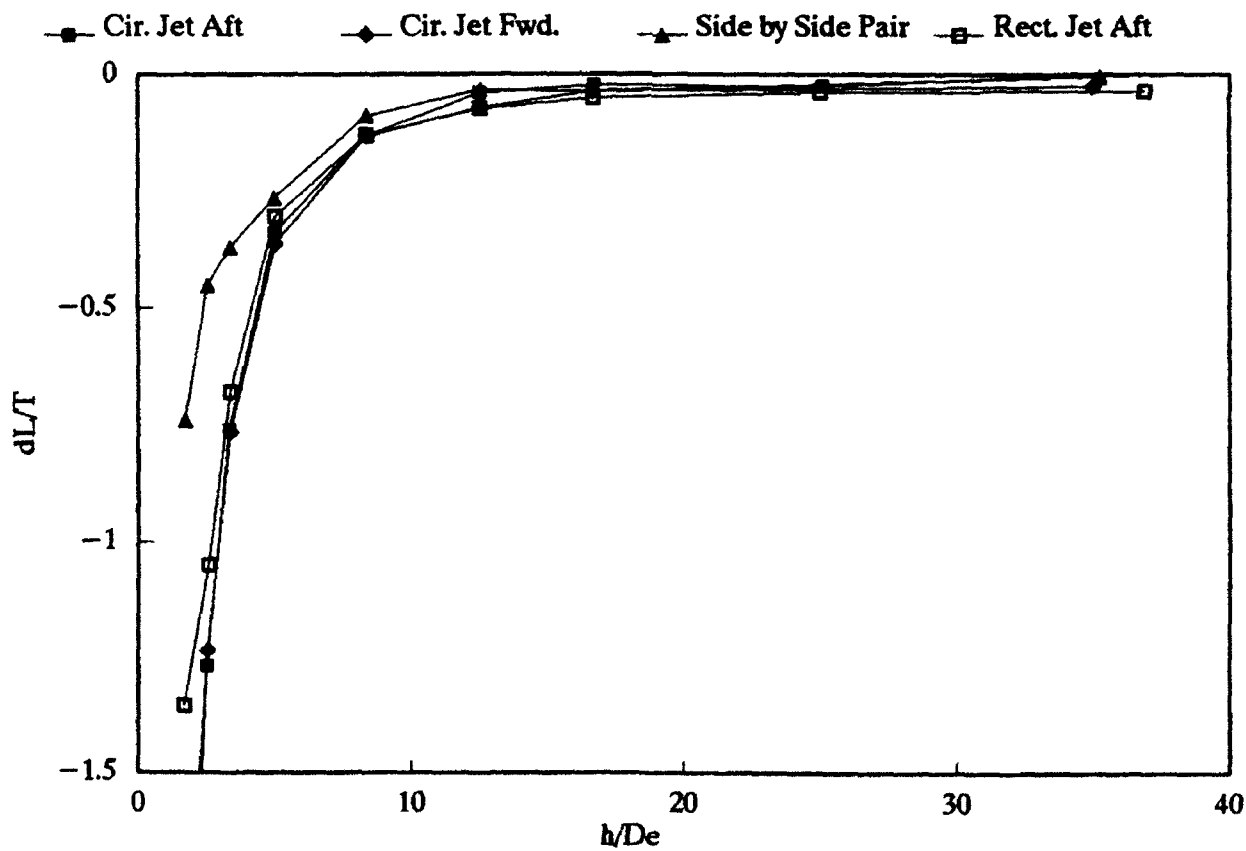
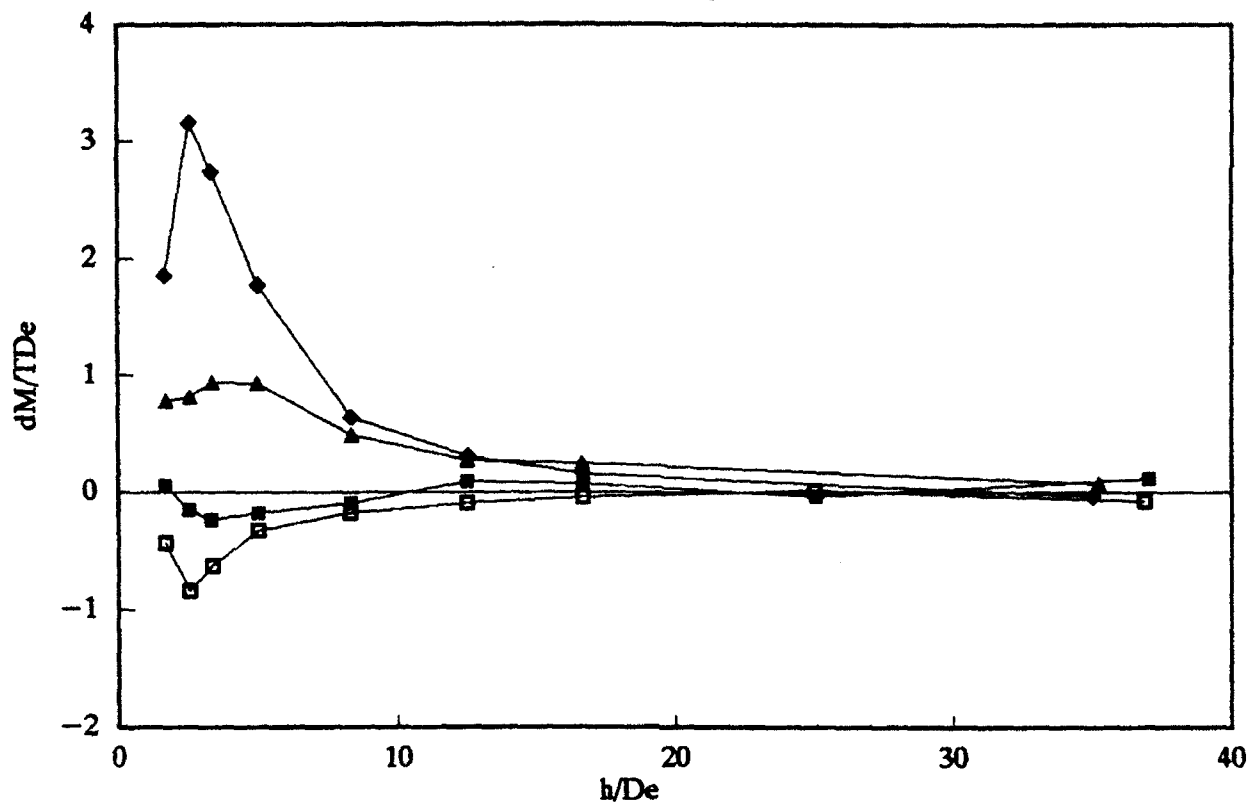
CONF. I    CONF. II    CONF. III    CONF. VI    CONF. VII



c)  $V_e = .15$

Figure 9.- Concluded.

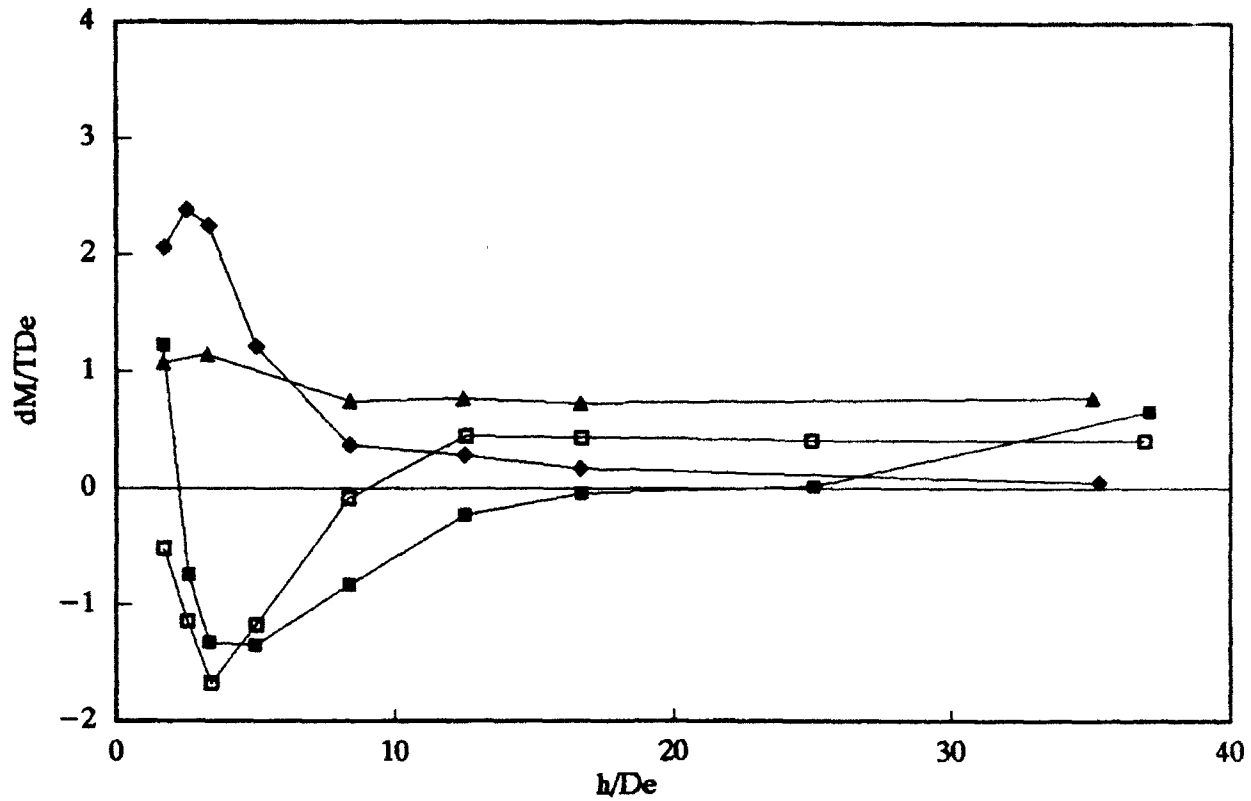
CONFIGURATION COMPARISON - Single Jet or Pair - NPR = 2  
 $V_e = 0$



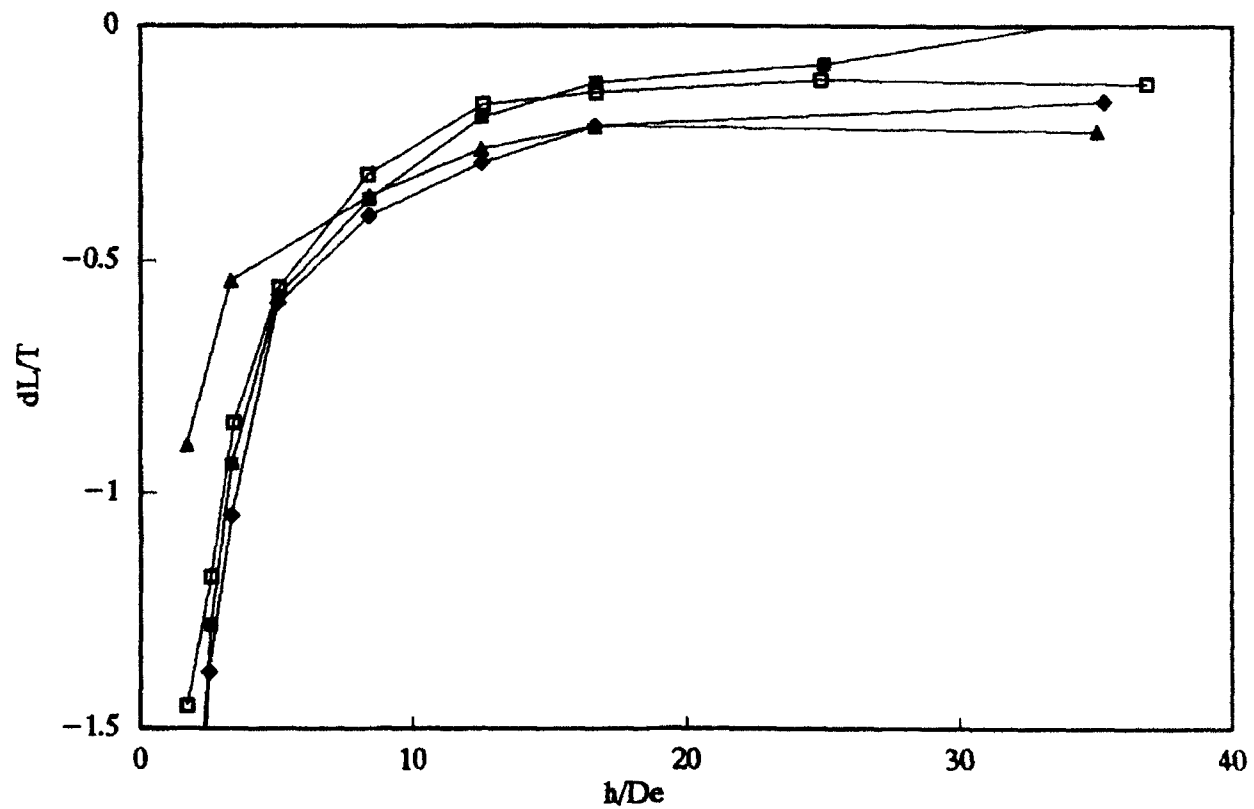
a)  $V_e = 0$

Figure 10.- Jet induced increments of lift and pitching moments for circular, rectangular and twin jets - NPR = 2; Fixed ground board.

CONFIGURATION COMPARISON -- Single Jet or Pair -- NPR = 2  
 $V_e = .06$



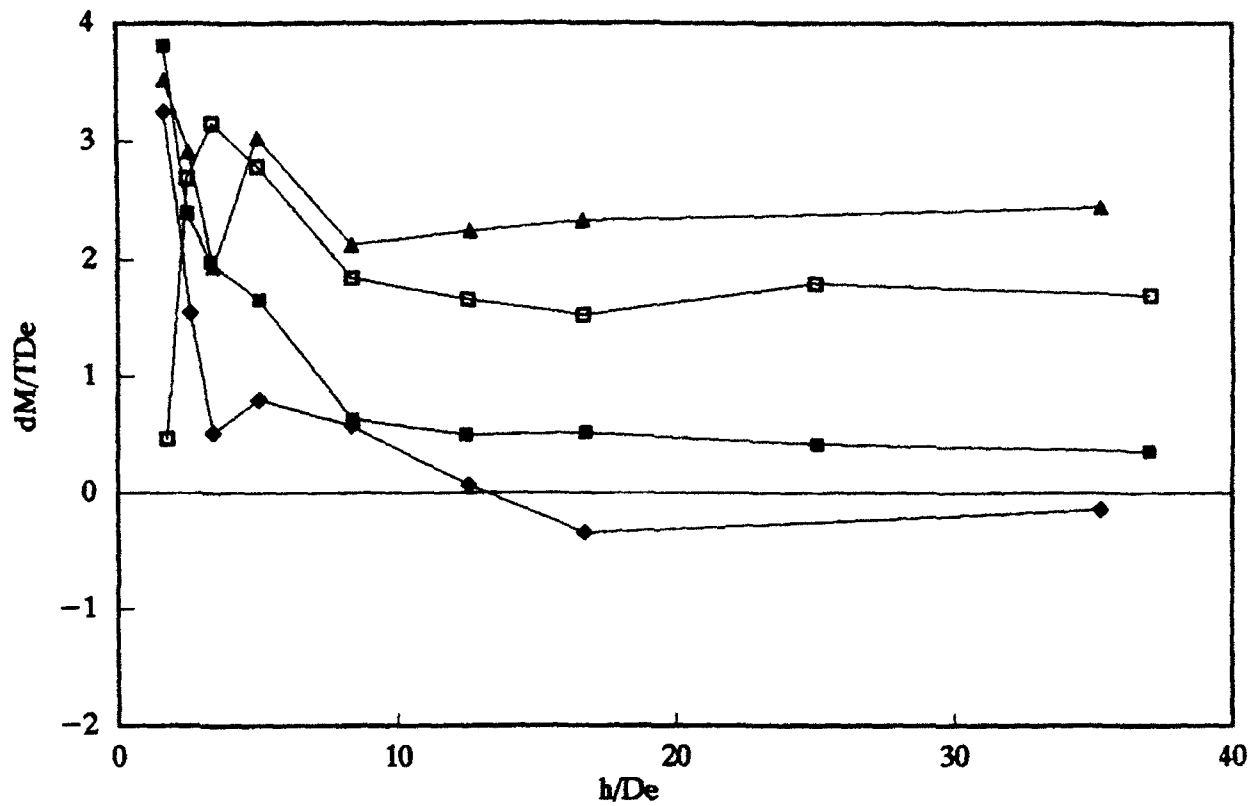
Cir. Jet Aft    
  Cir. Jet Fwd.    
  Side by Side Pair    
  Rect. Jet Aft



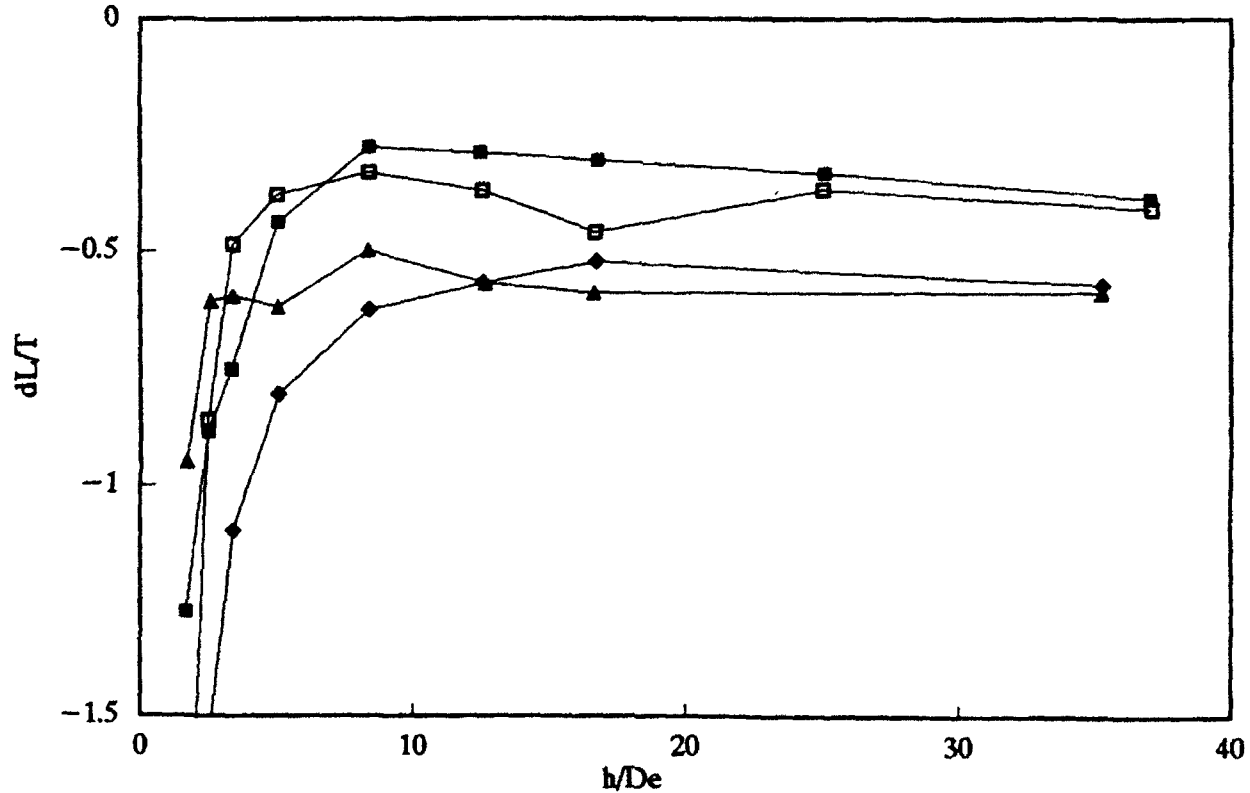
b)  $V_e = .06$

Figure 10.- Continued.

CONFIGURATION COMPARISON - Single Jet or Pair - NPR = 2  
 $V_e = .15$



Cir. Jet Aft    
  Cir. Jet Fwd.    
  Side by Side Pair    
  Rect. Jet Aft

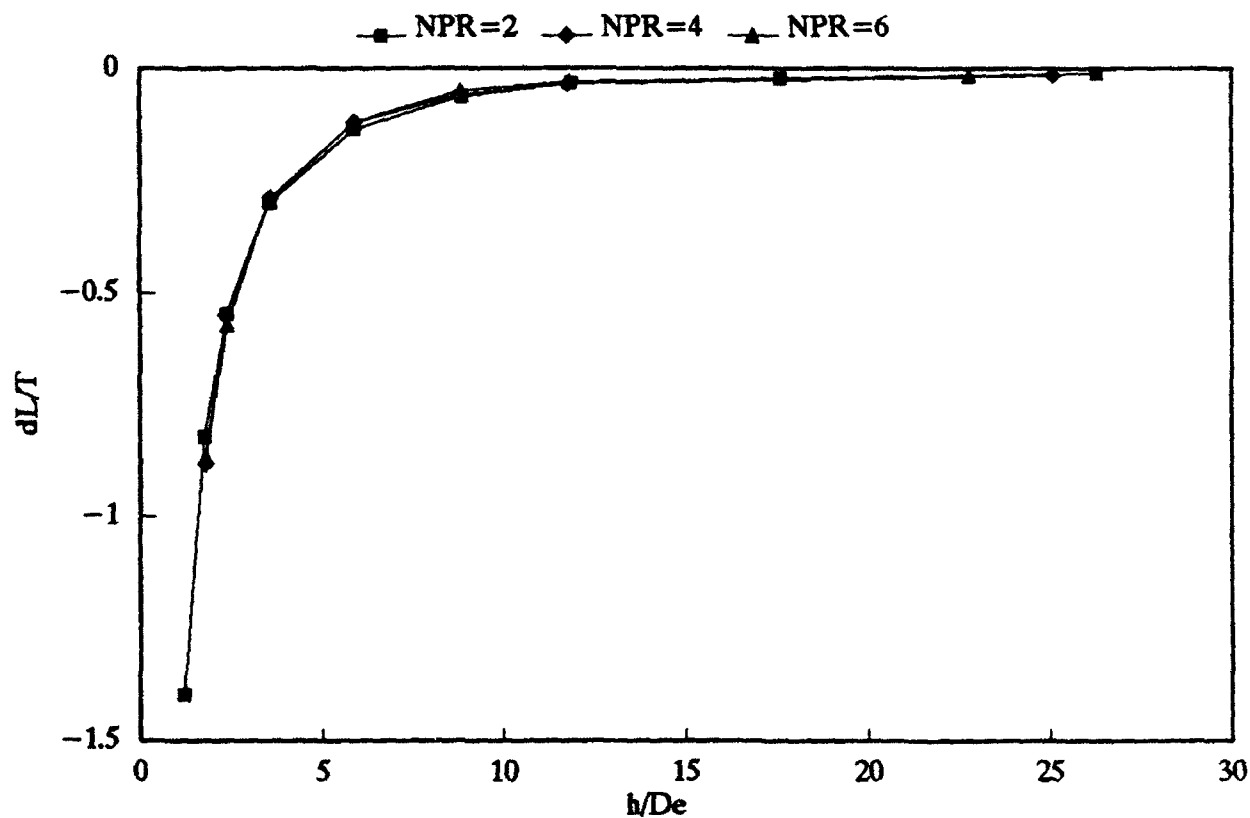
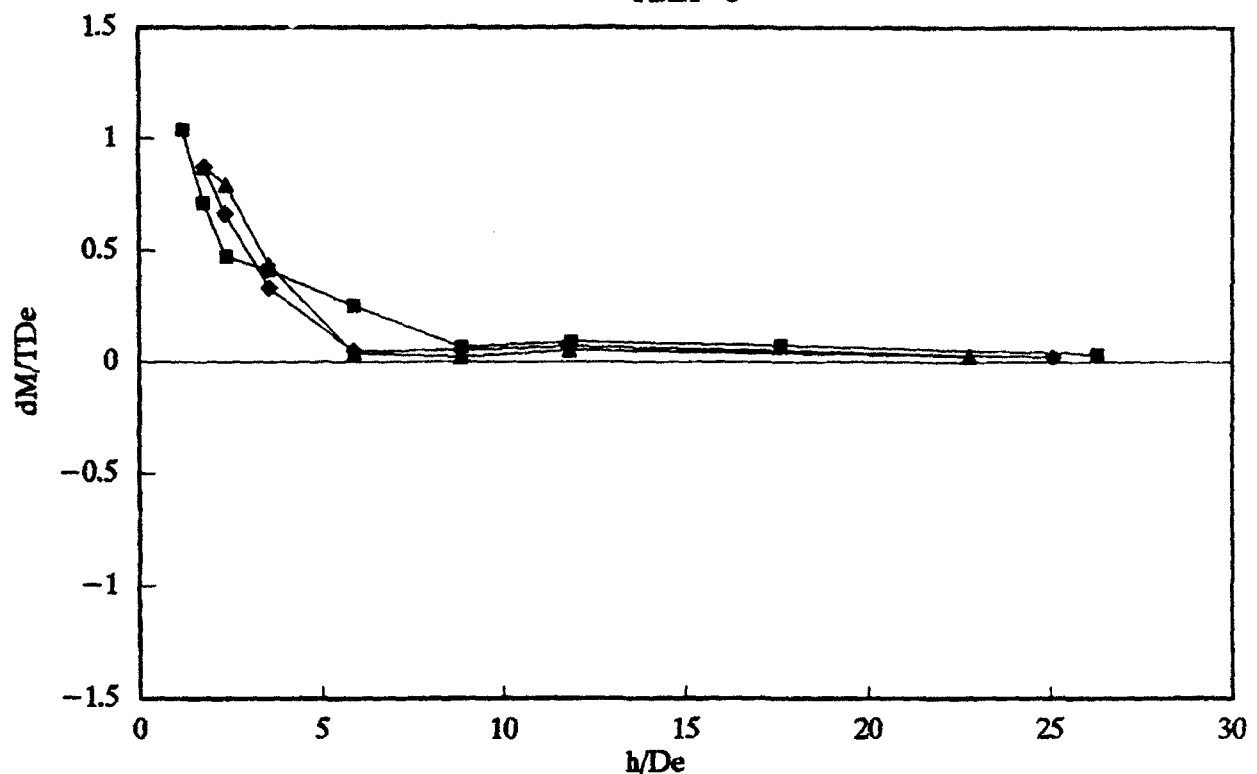


c)  $V_e = .15$

Figure 10.- Concluded.

# CONFIGURATION I – Both Jets – $V_e = 0$

TBL1-3

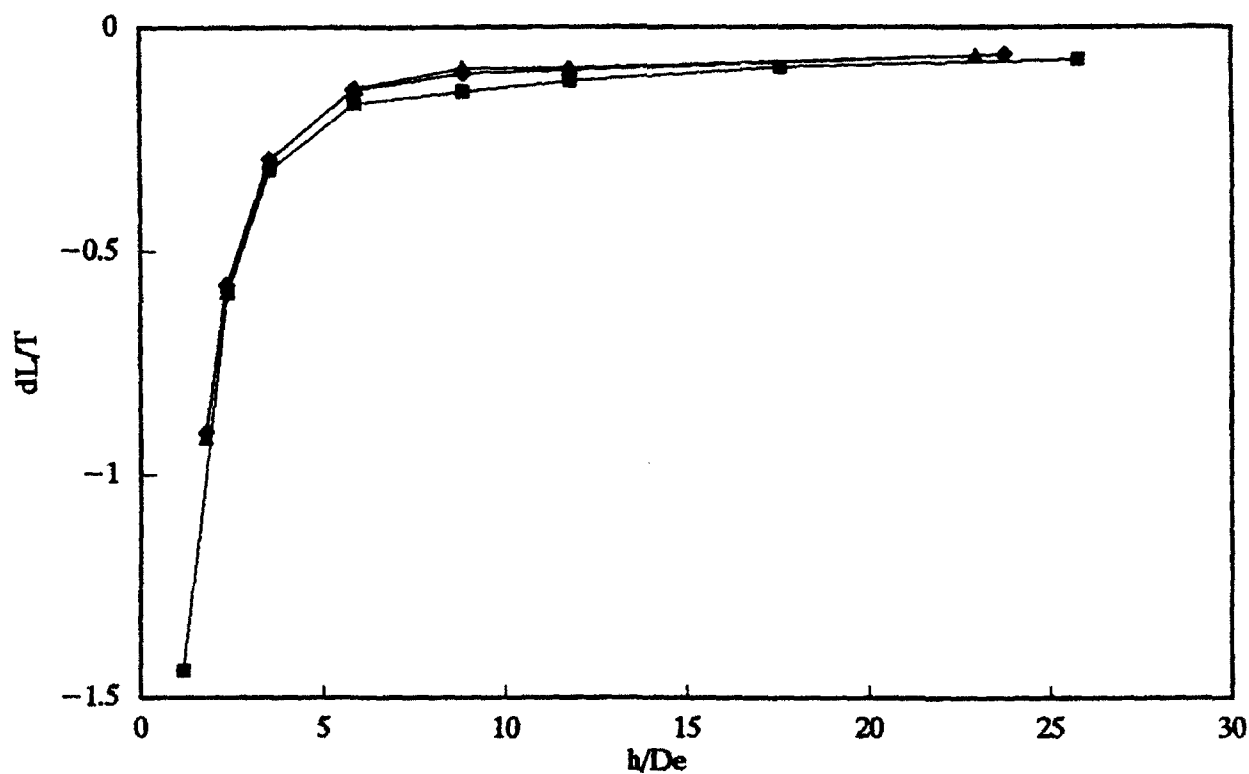
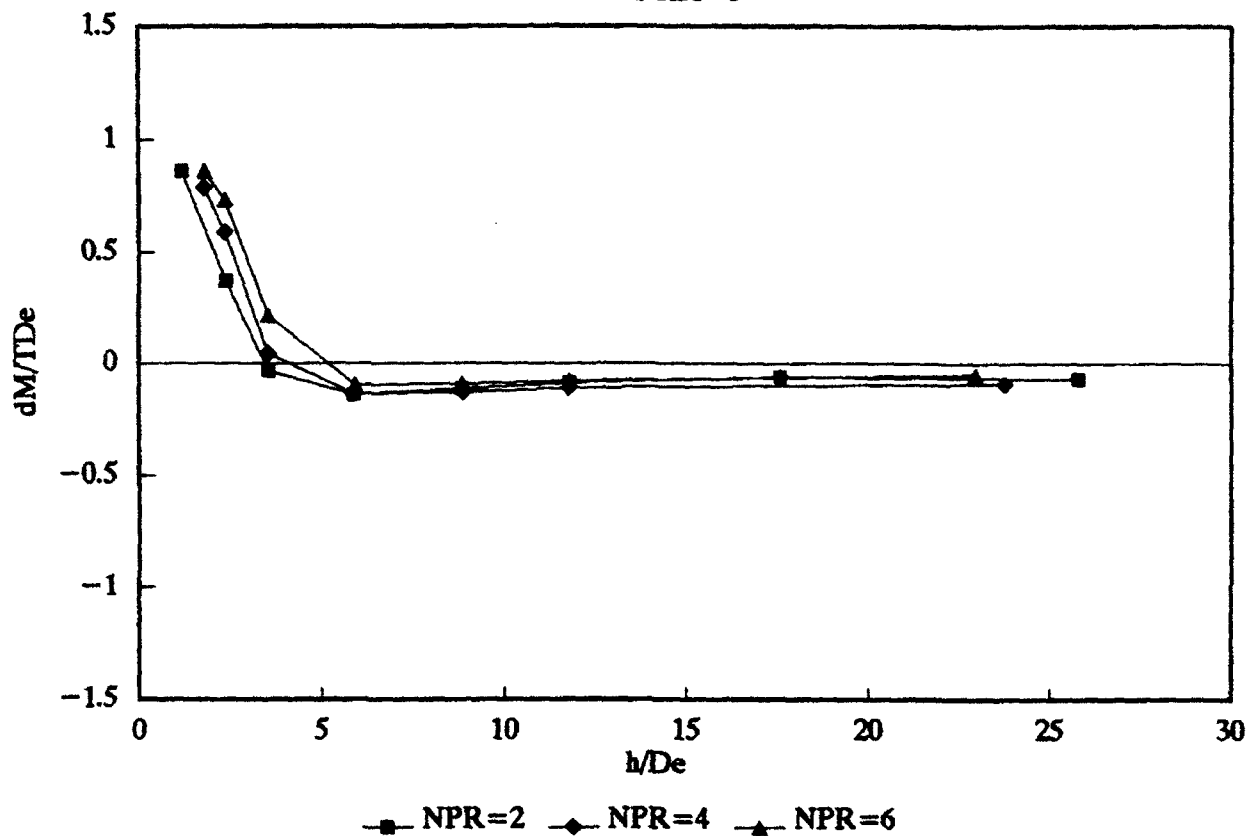


a)  $V_e = 0$

Figure 11.- Effect of nozzle pressure ratio on the jet induced increments of lift and pitching moment;  
Configuration I - Both jets - Fixed ground board.

# CONFIGURATION I – Both Jets – $Ve = .04$

TBL1-3

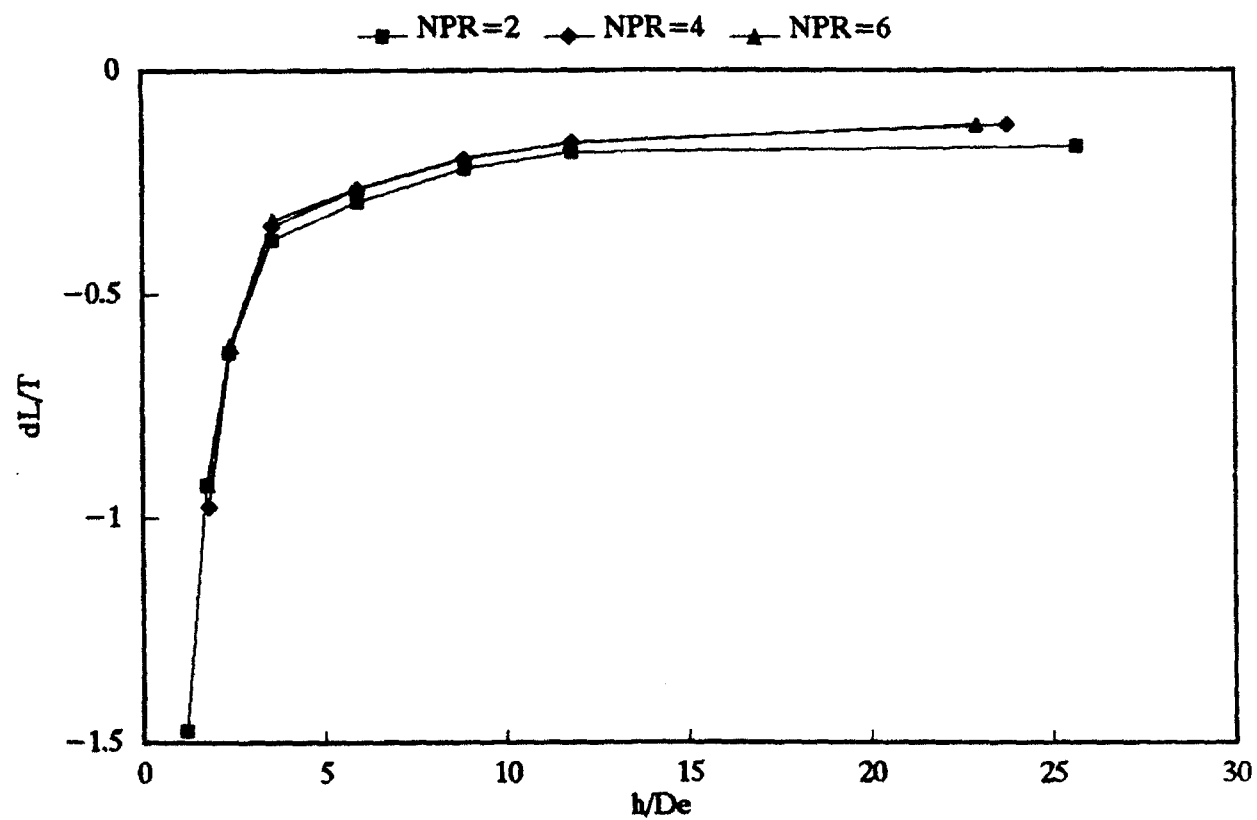
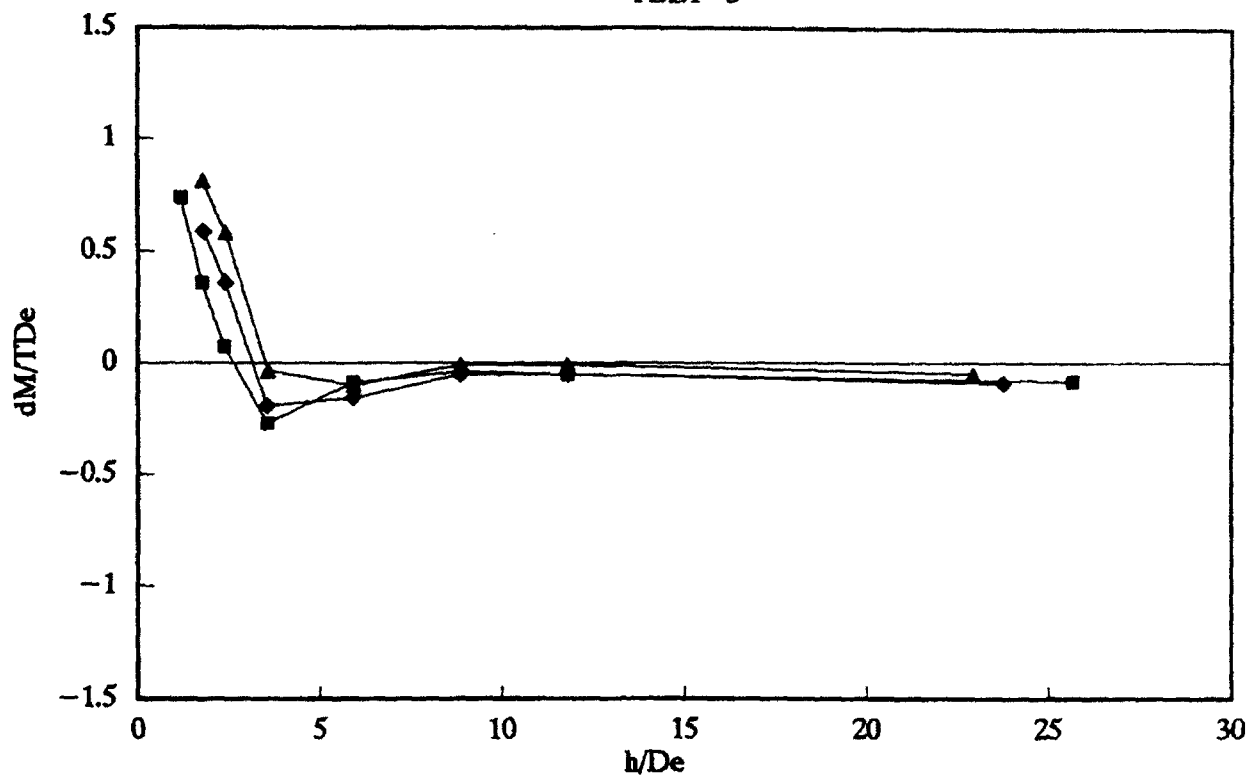


b)  $Ve = .04$

Figure 11.- Continued.

# CONFIGURATION I – Both Jets – $V_e = .08$

TBL1-3

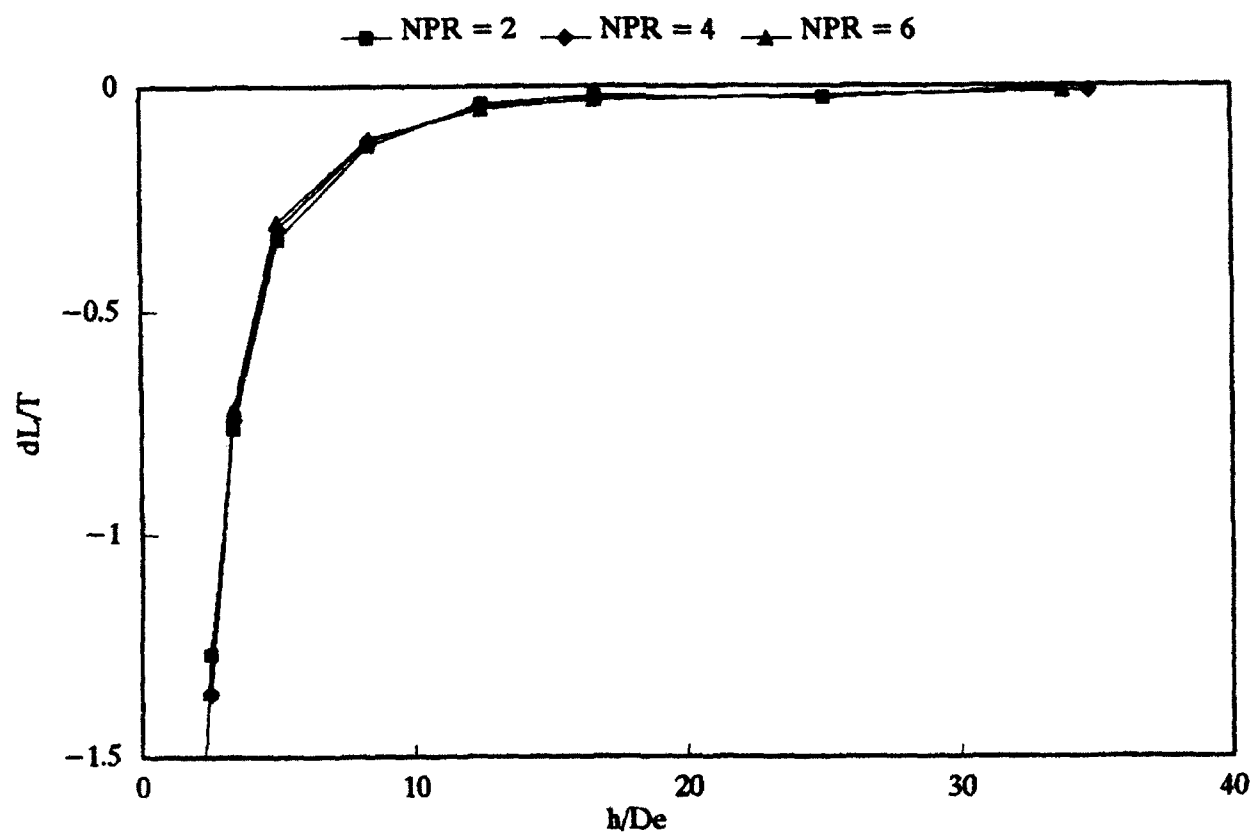
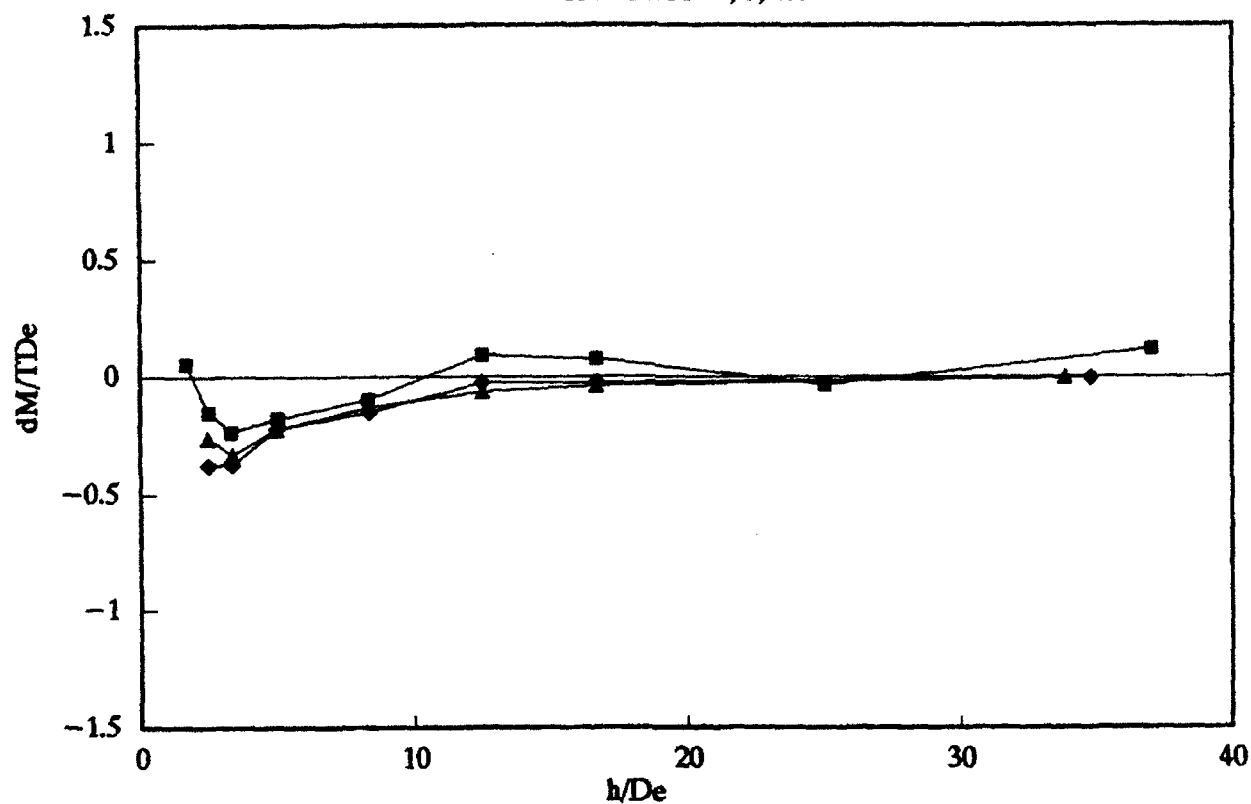


c)  $V_e = .08$

Figure 11.- Concluded.



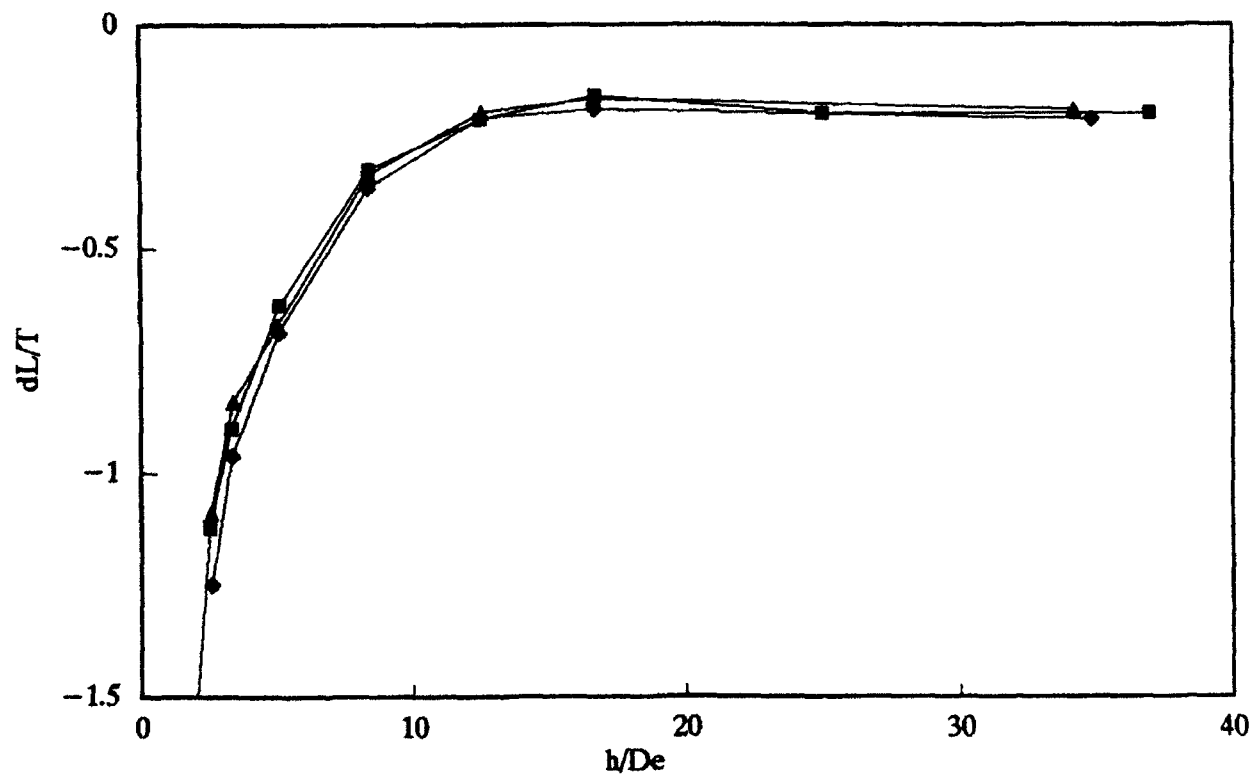
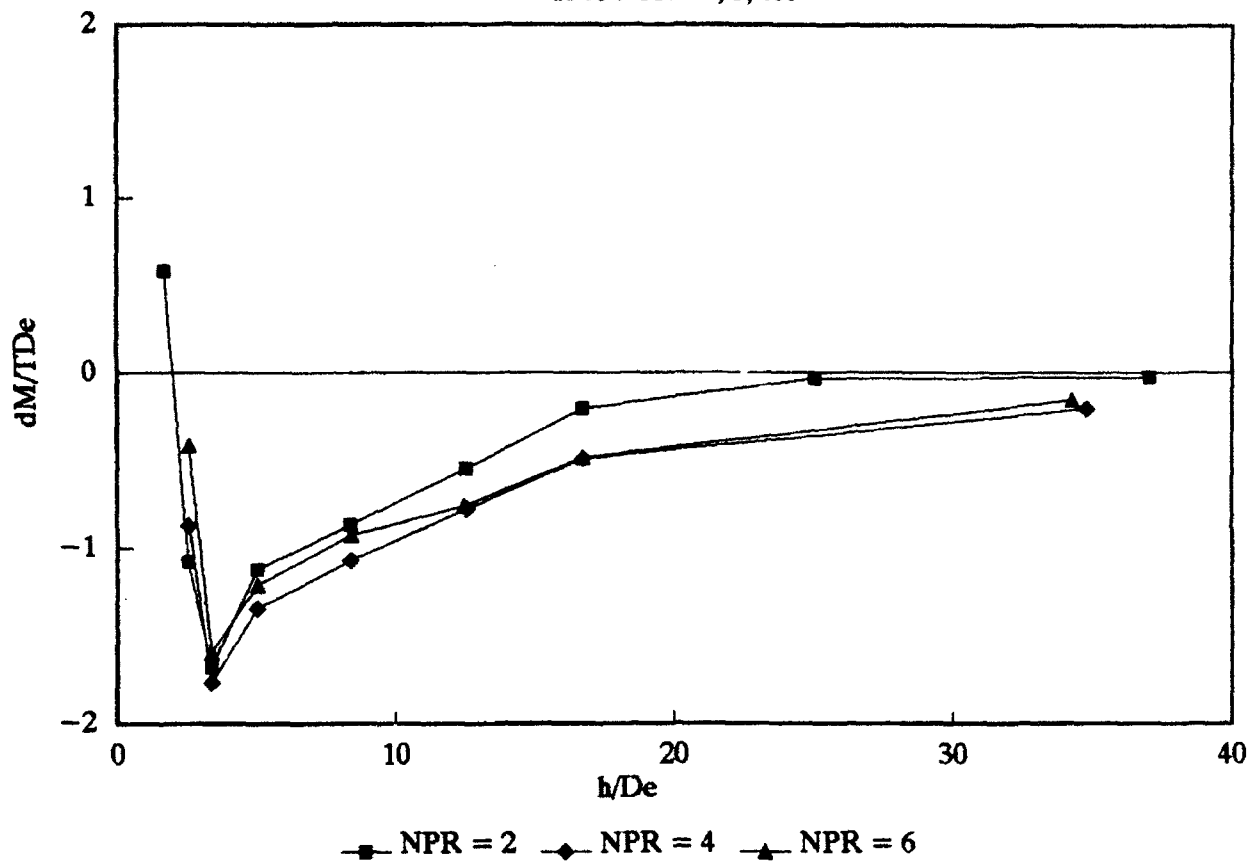
CONFIGURATION I - Rear Jet Alone -  $V_e = 0$   
TABLE A-4, 5, & 6



a)  $V_e = 0$

Figure 12.- Effect of nozzle pressure ratio on the jet induced increments of lift and pitching moment; Conf. I - Rear jet alone - Fixed ground board.

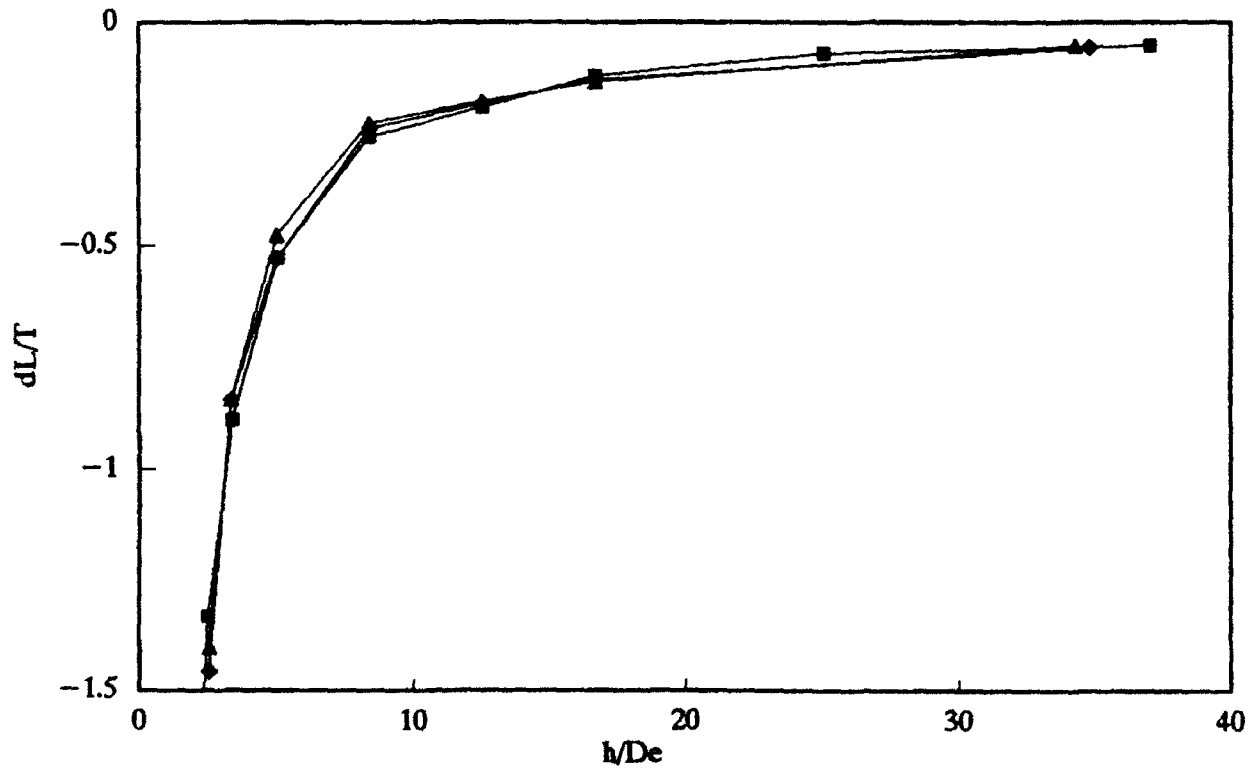
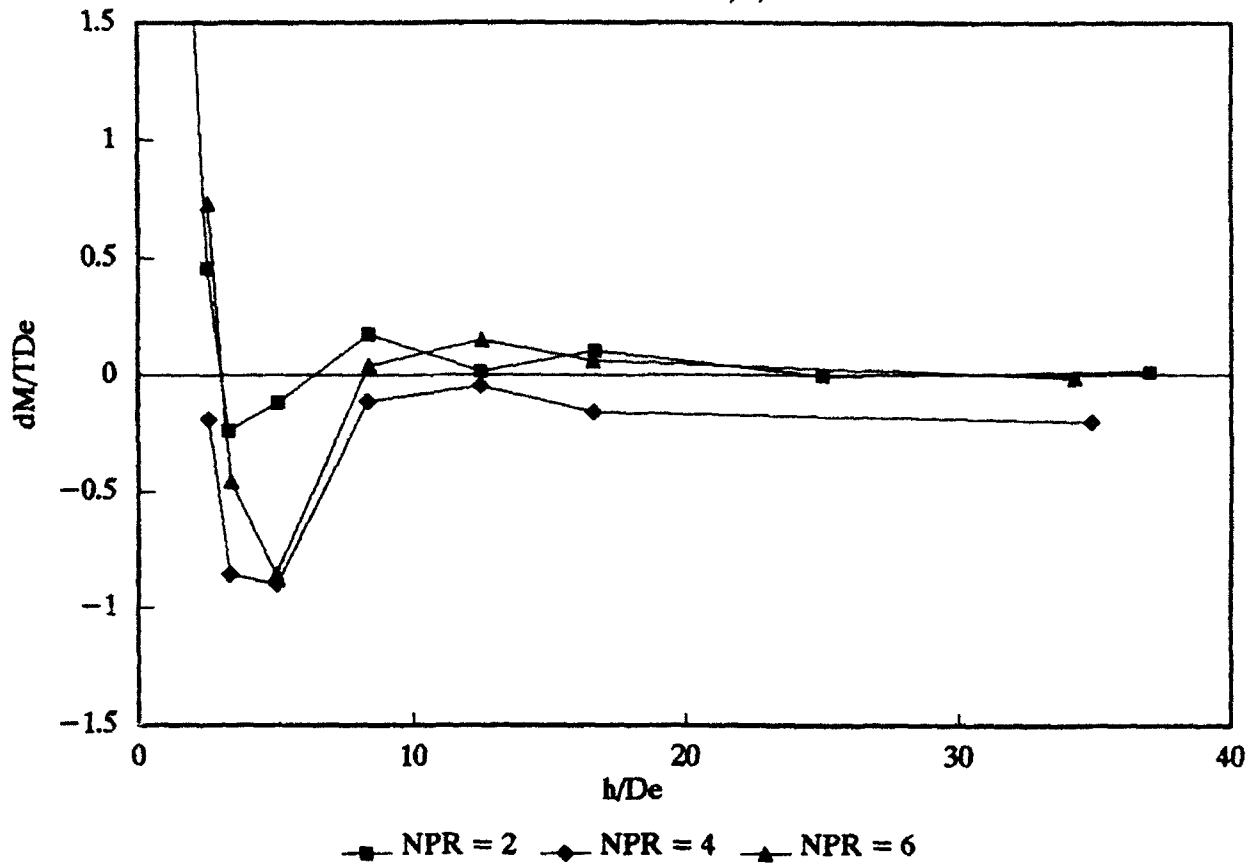
CONFIGURATION I - Rear Jet Alone -  $V_e = .04$   
TABLE A-4, 5, & 6



b)  $V_e = .04$

Figure 12.- Continued.

CONFIGURATION I - Rear Jet Alone -  $V_e = .1$   
TABLE A-4, 5, & 6

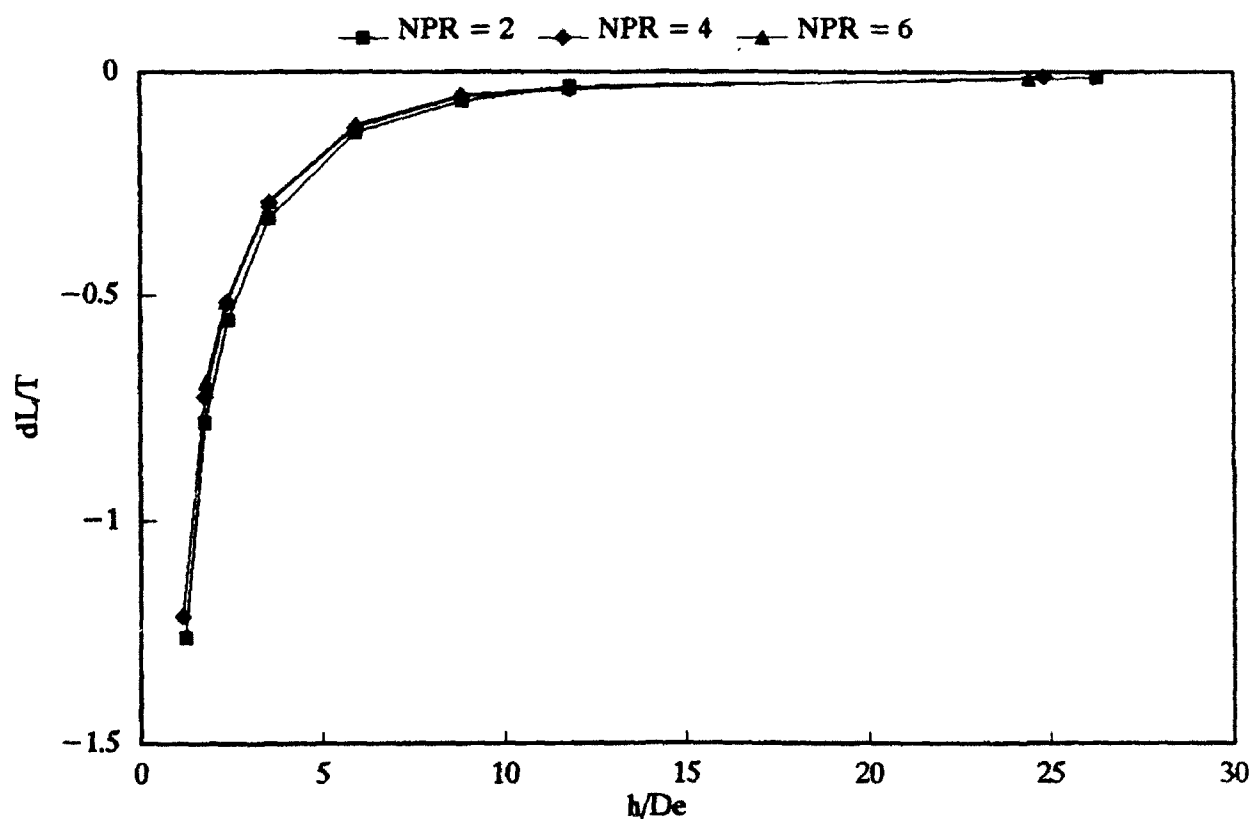
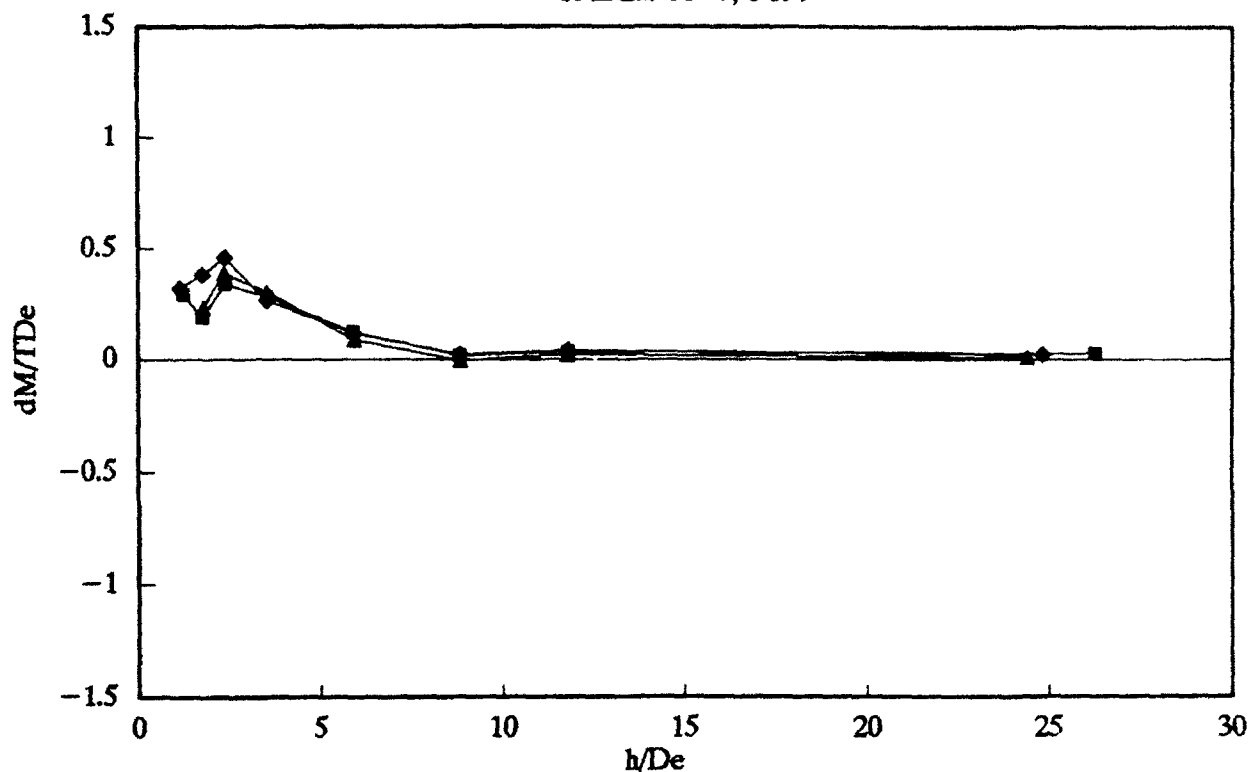


c)  $V_e = .1$

Figure 12.- Concluded.

# CONFIGURATION II - Both Jets - $V_e = 0$

TABLE A-7, 8 & 9

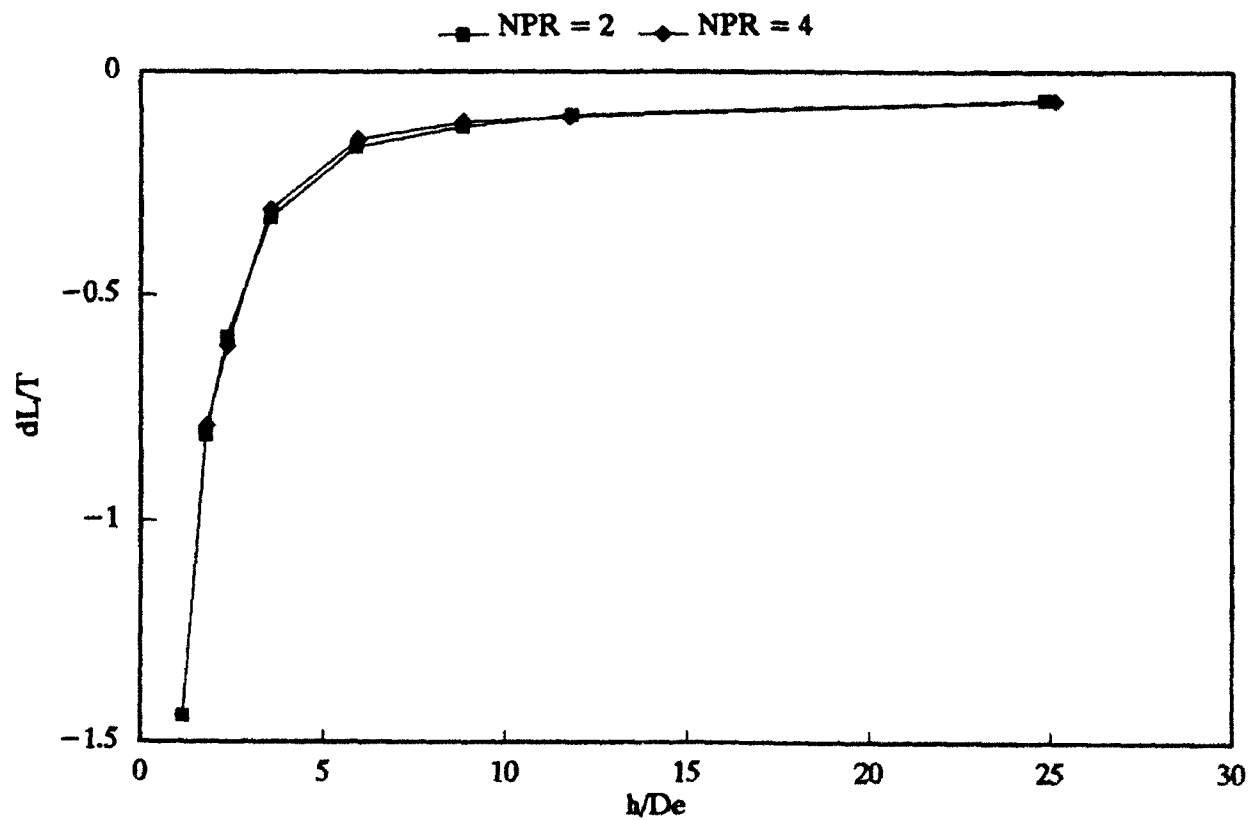
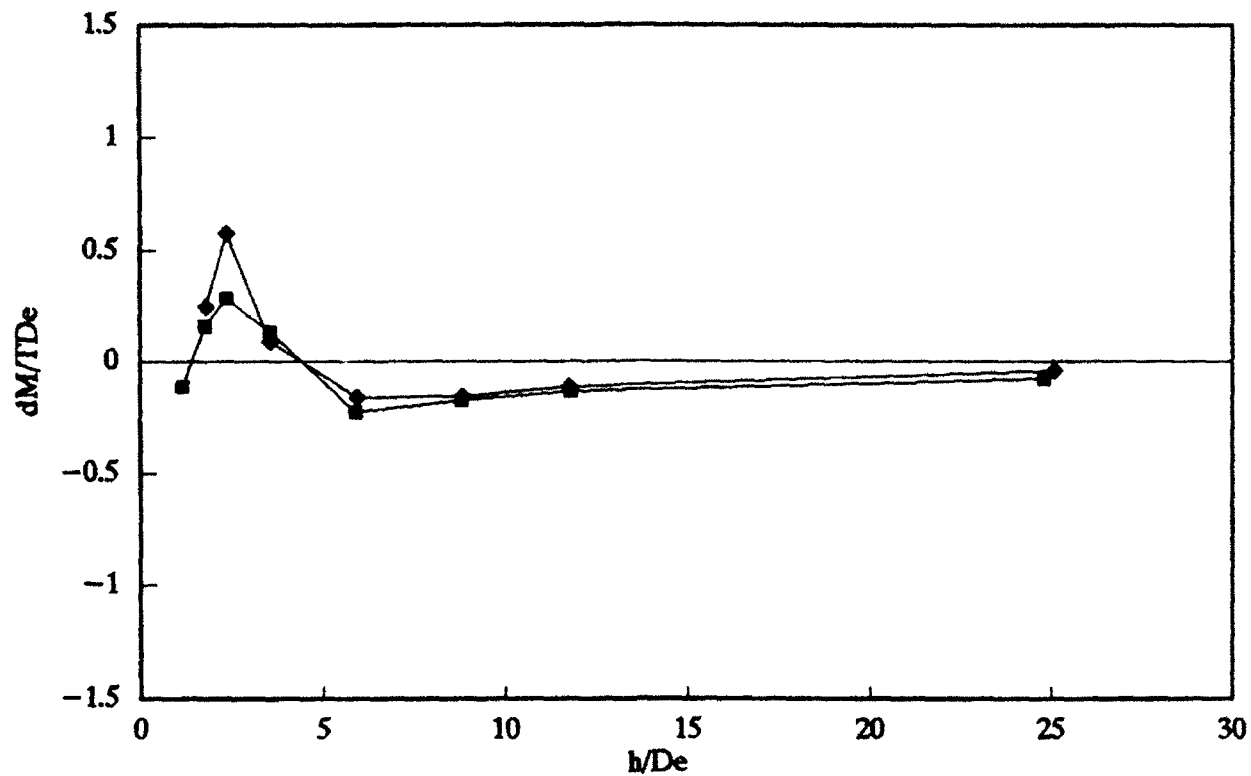


a)  $V_e = 0$

Figure 13.- Effect of nozzle pressure ratio on the jet induced increments of lift and pitching moment; Configuration II - Both jets - Fixed ground board.

# CONFIGURATION II – Both Jets – $Ve = .04$

TABLE A-7 & 8

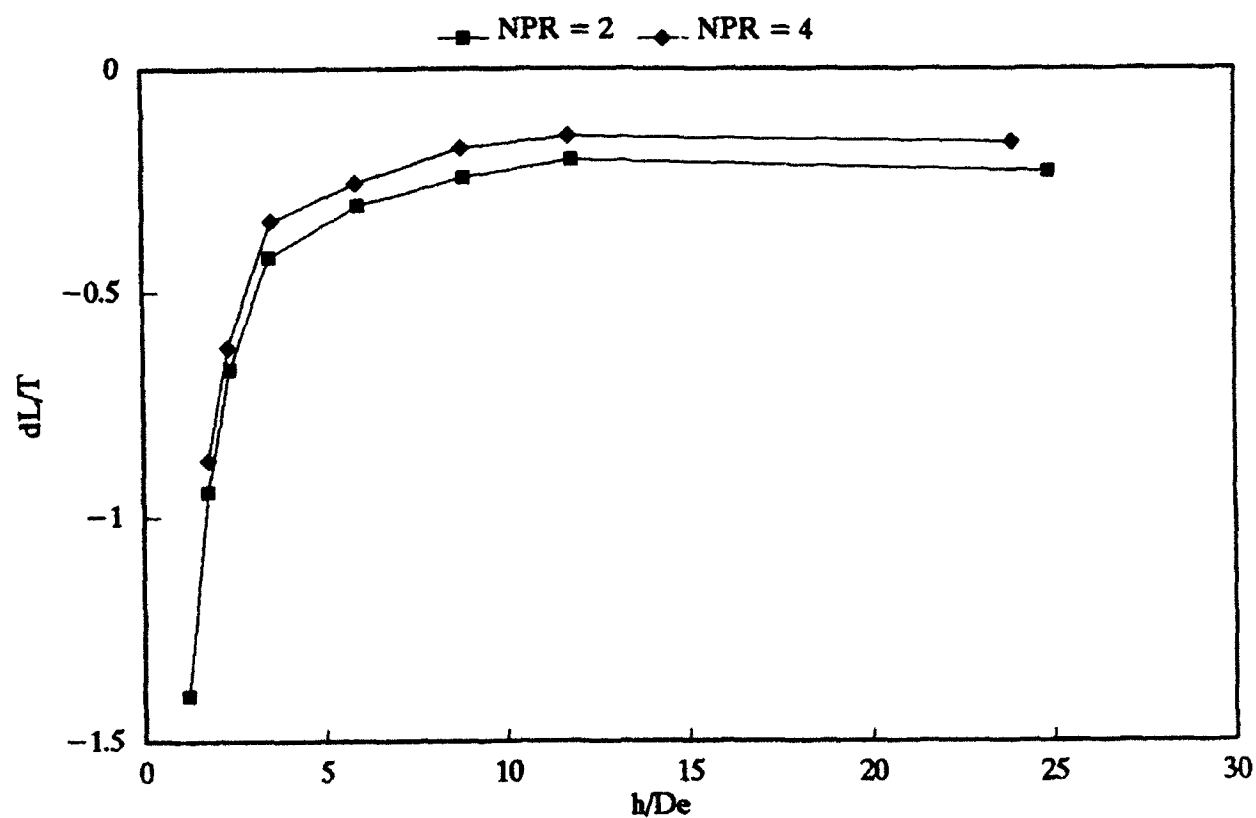
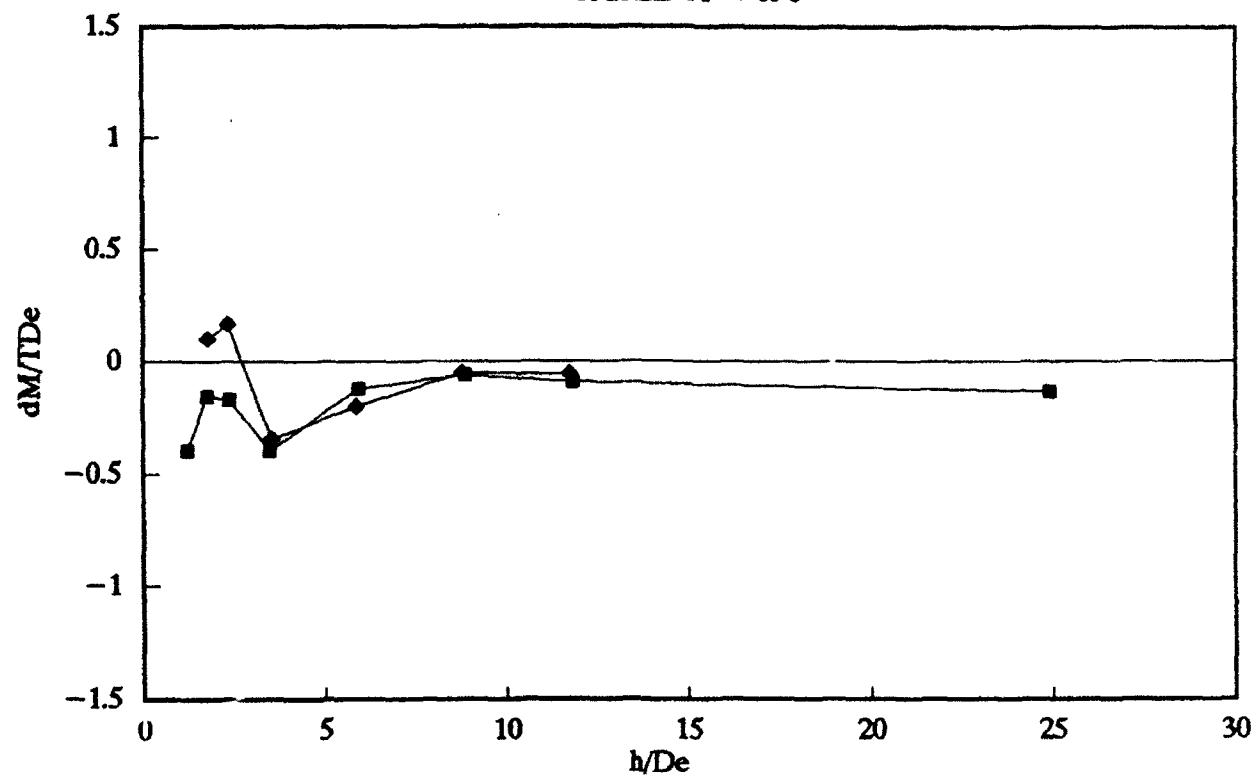


b)  $Ve = .04$

Figure 13.- Continued.

# CONFIGURATION II — Both Jets — $Ve = .1$

TABLE A-7 & 8



c)  $Ve = .1$

Figure 13.- Concluded.

# CONFIGURATION VI - Both Jets - $V_e = 0$

TABLE A-16, 17 & 18

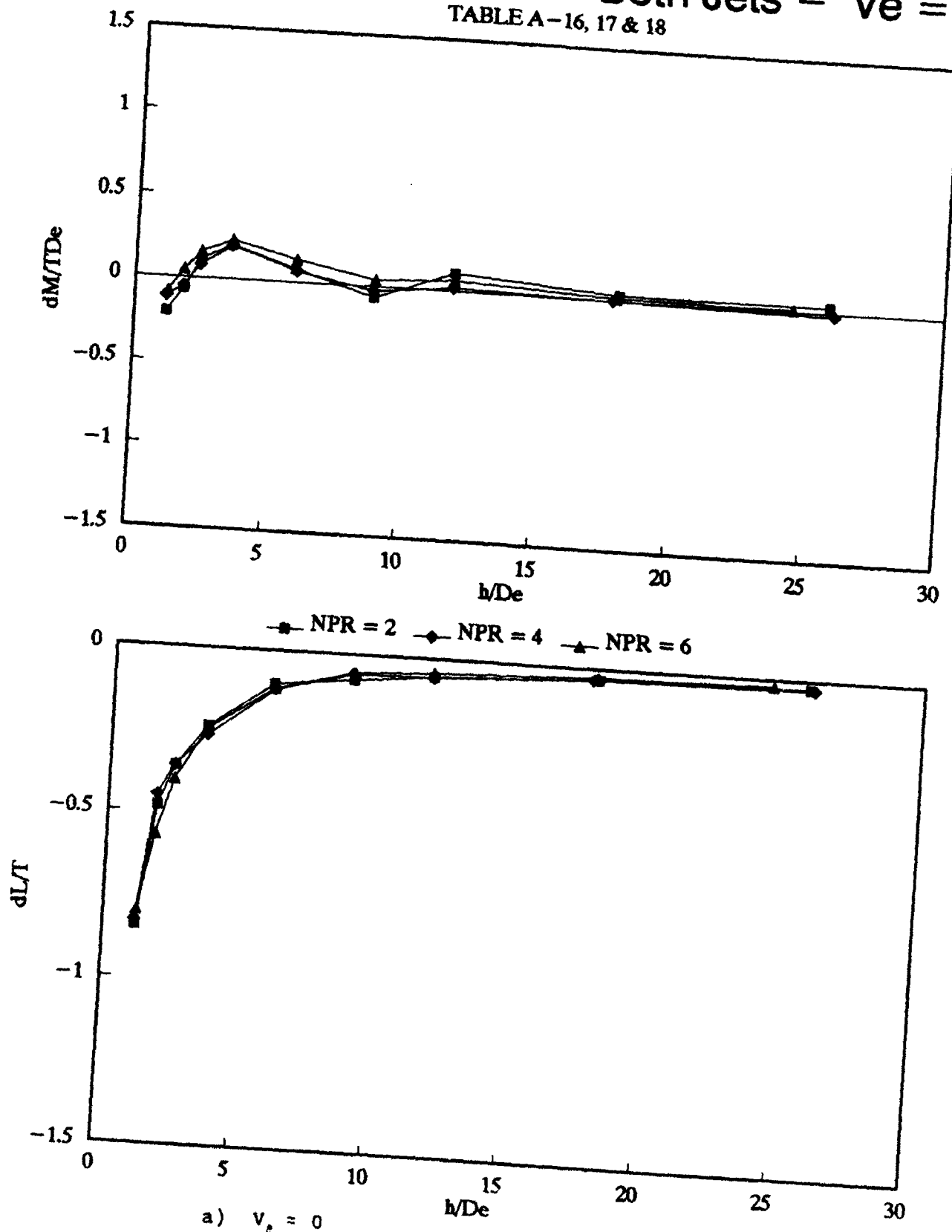
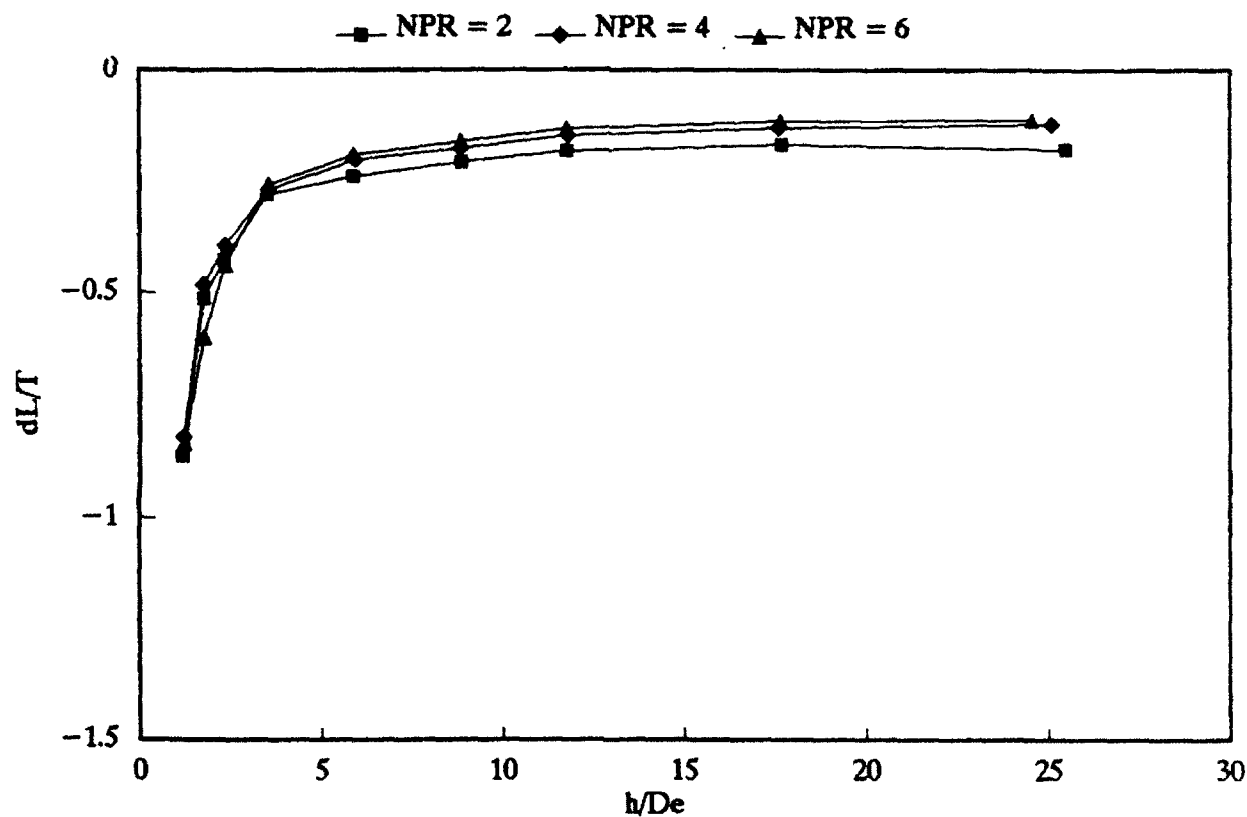
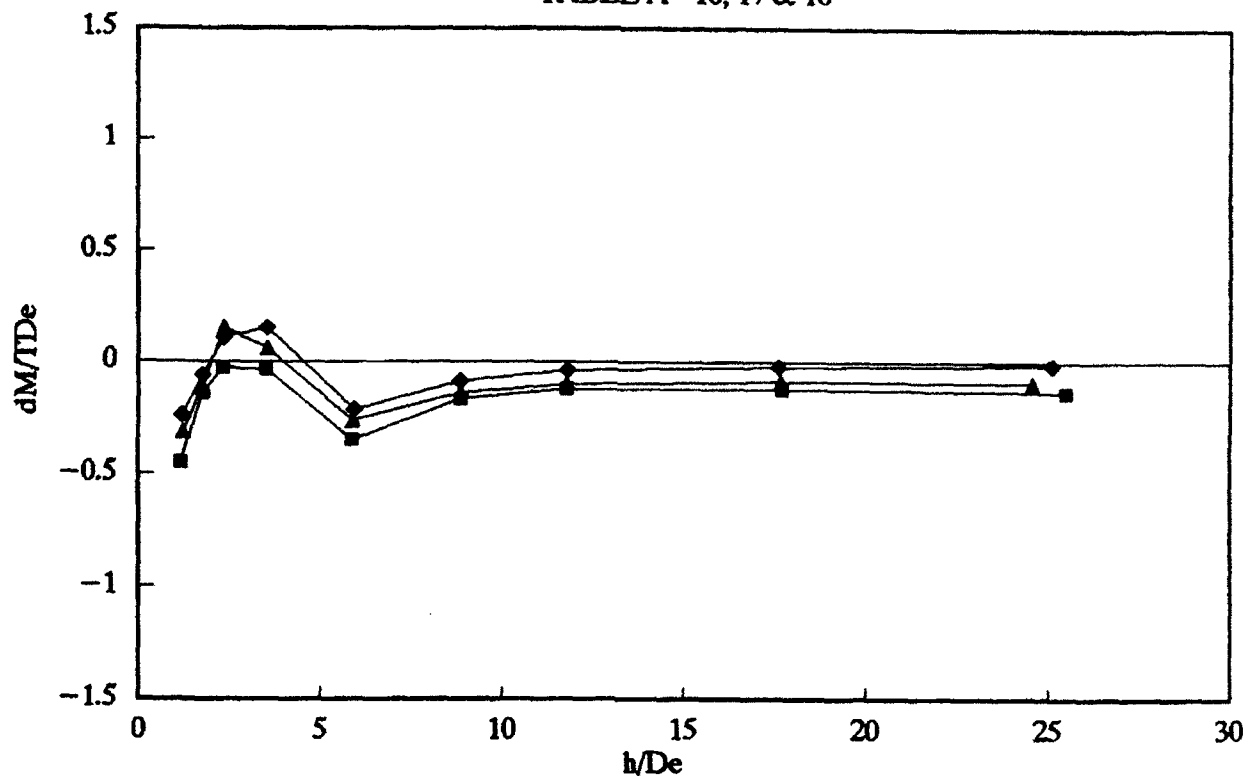


Figure 14.- Effect of nozzle pressure ratio on the jet induced increments of lift and pitching moment; Configuration VI - Both jets - Fixed ground board.

# CONFIGURATION VI — Both Jets — $Ve = .06$

TABLE A-16, 17 & 18



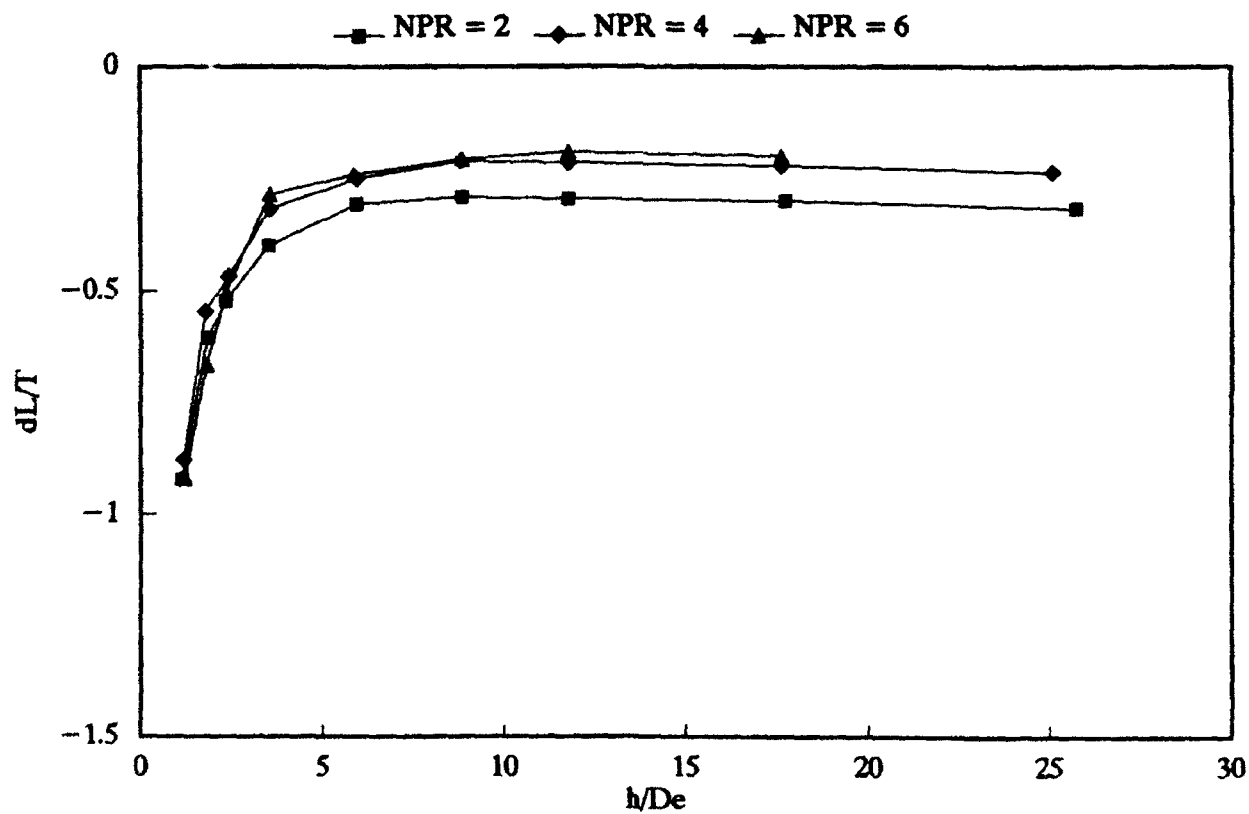
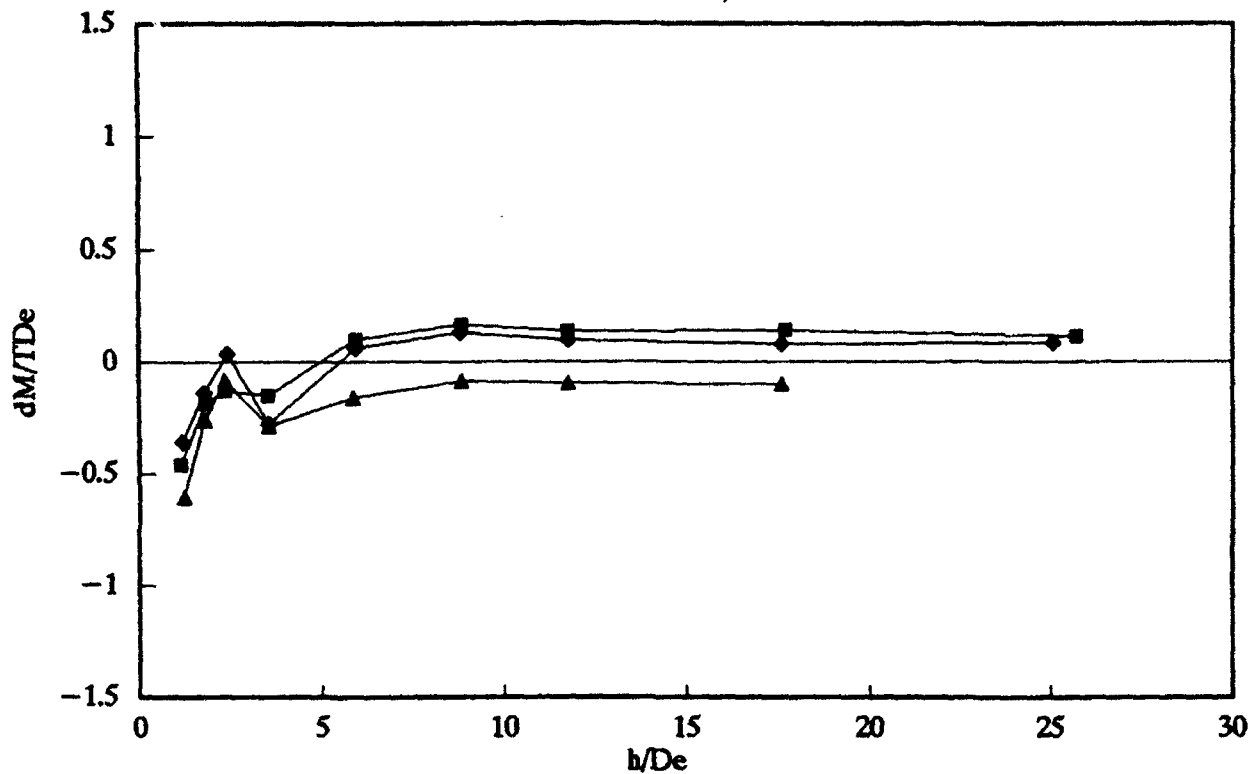
b)  $Ve = .06$

Figure 14.- Continued.



# CONFIGURATION VI — Both Jets — $Ve = .1$

TABLE A-16, 17 & 18

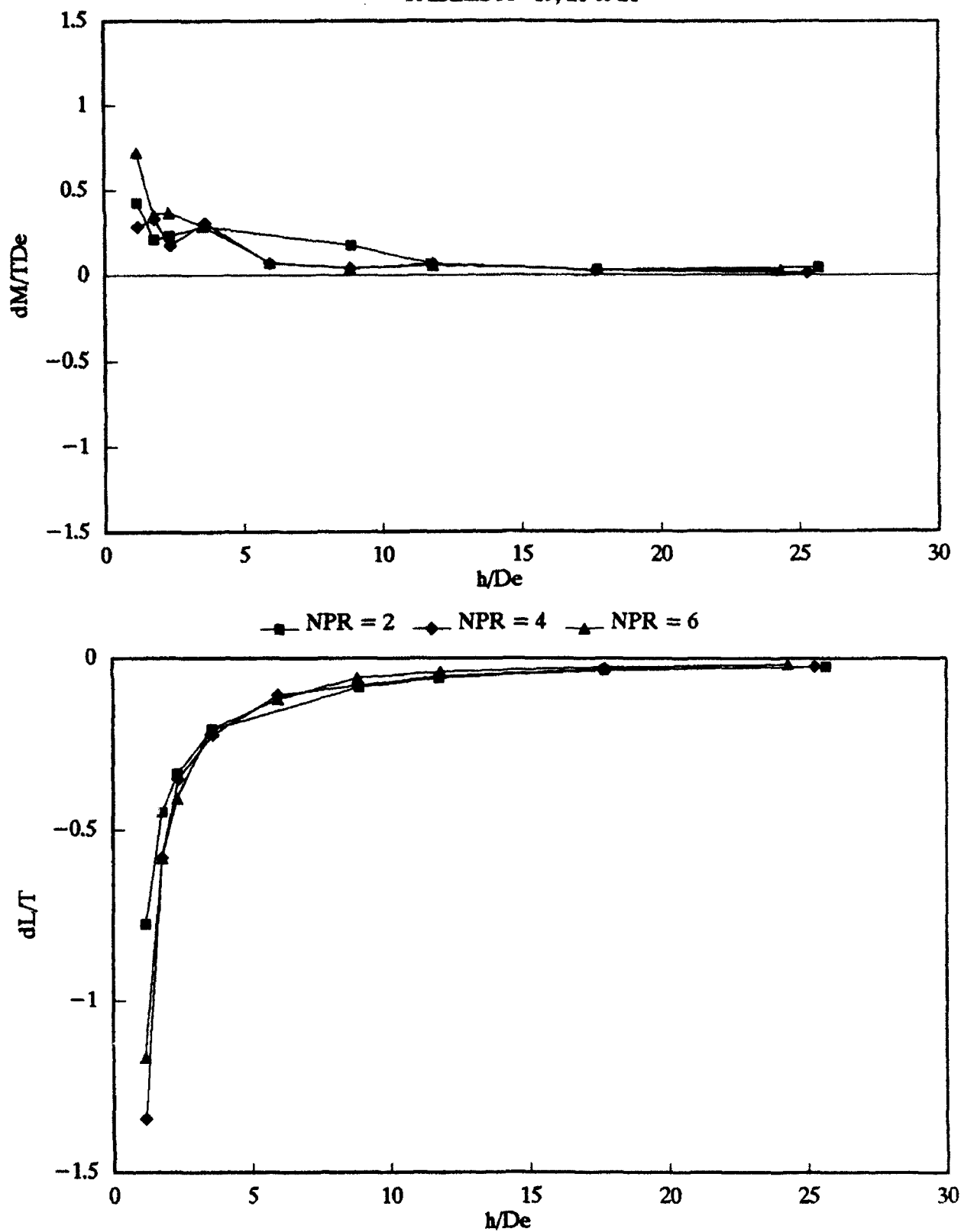


c)  $V_e = .1$

Figure 14.- Concluded.

# CONFIGURATION VII — Both Jets — $V_e = 0$

TABLES A-19, 20 & 21

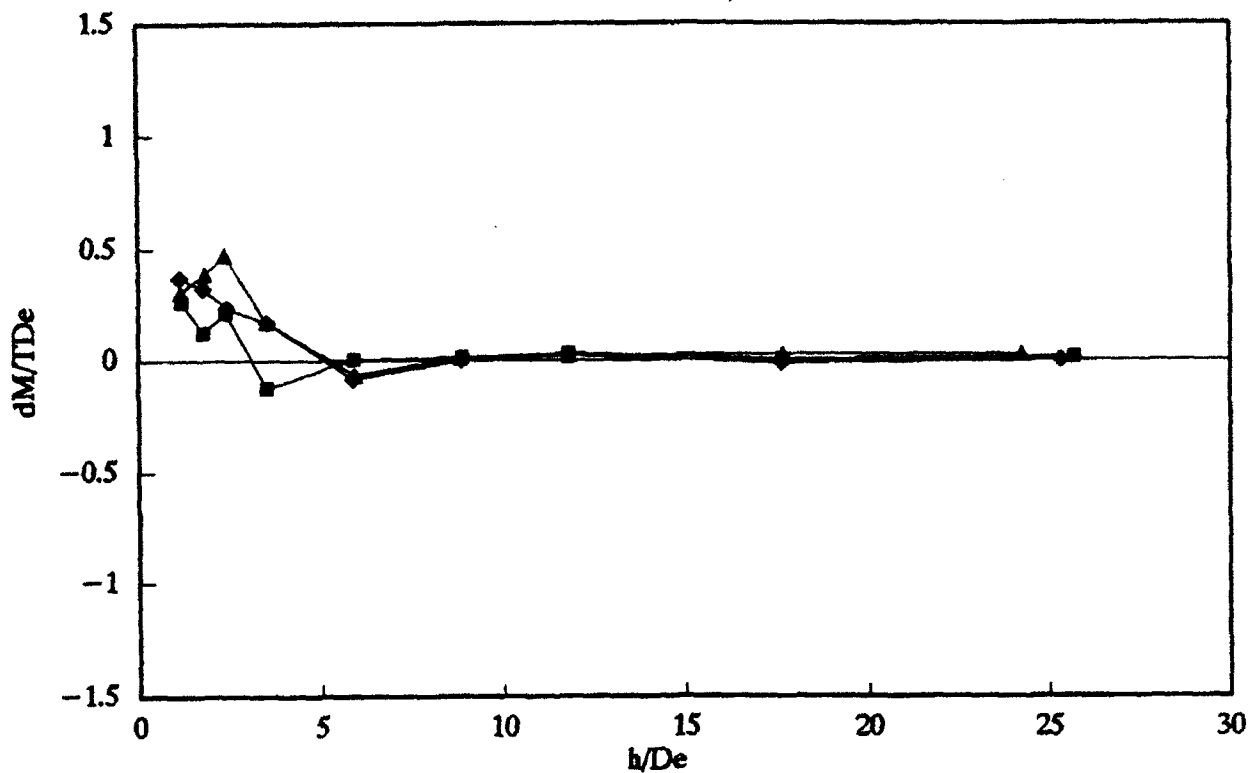


a)  $V_e = 0$

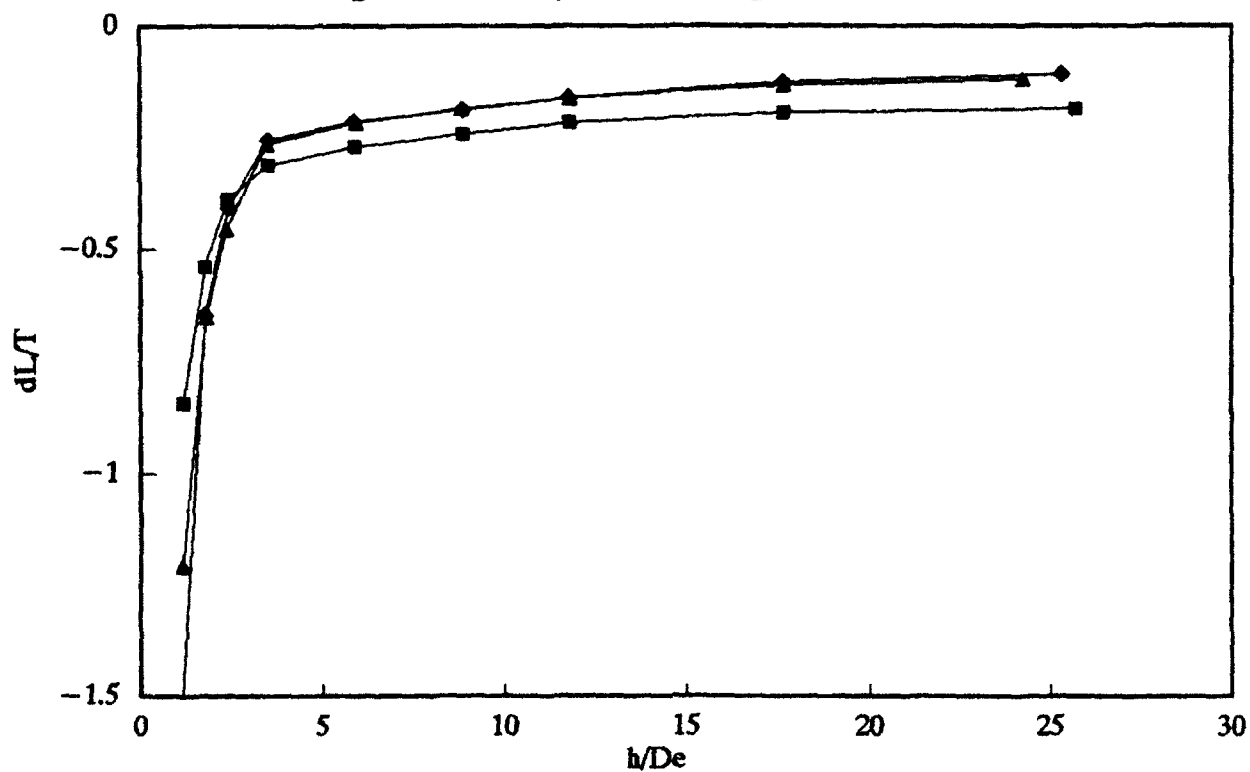
Figure 15.- Effect of nozzle pressure ratio on the jet induced increments of lift and pitching moment; Configuration VII - Both jets - Fixed ground board.

# CONFIGURATION VII – Both Jets – $Ve = .06$

TABLES A-19, 20 & 21



—■— NPR = 2 —◆— NPR = 4 —▲— NPR = 6

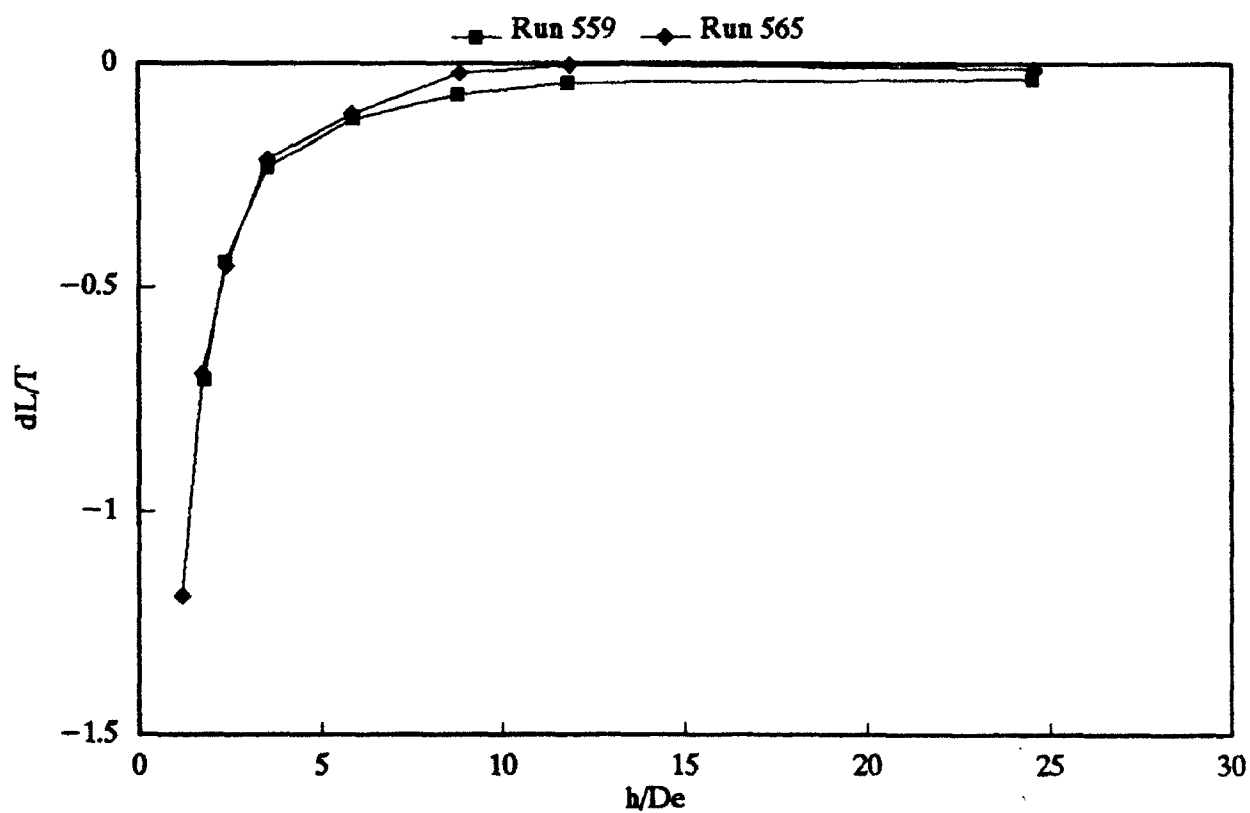
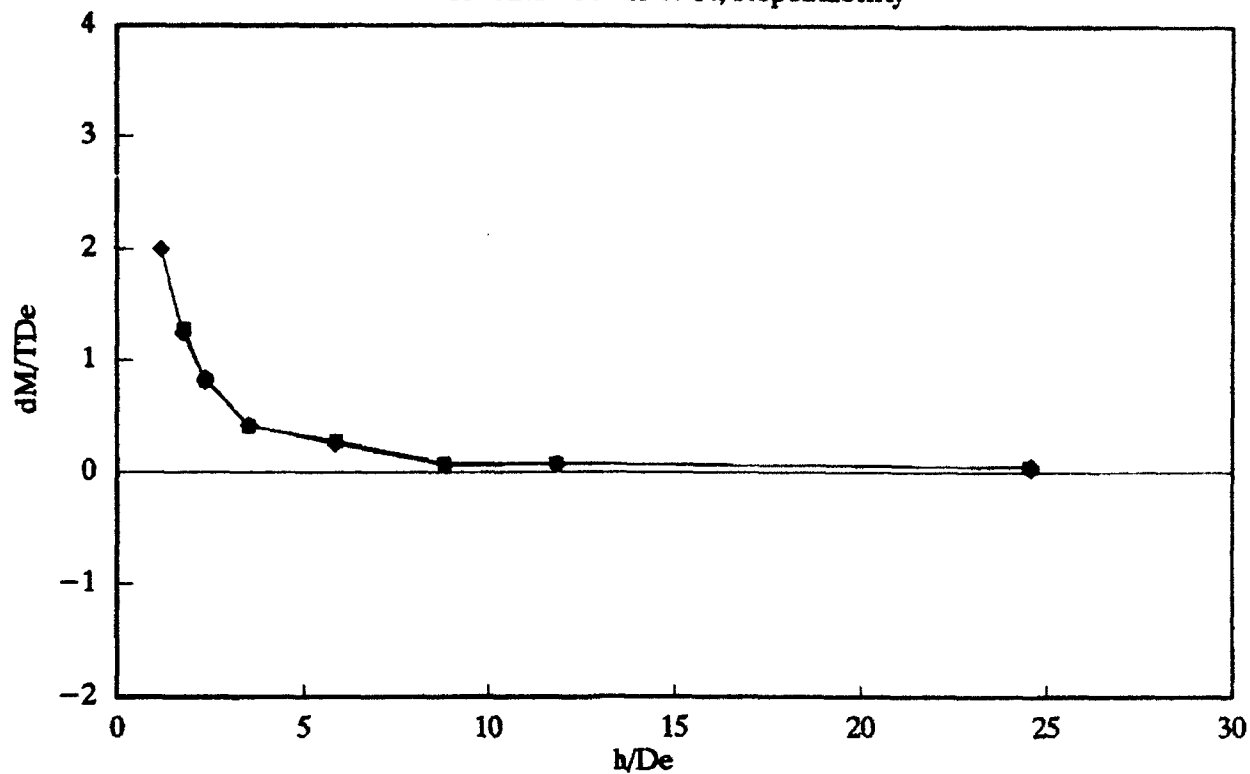


b)  $Ve = .06$

Figure 15.- Concluded.

# CONF. IV - All Jets - NPR = 2 - $V_e = 0$

TABLES A-13 & 14, Repeatability

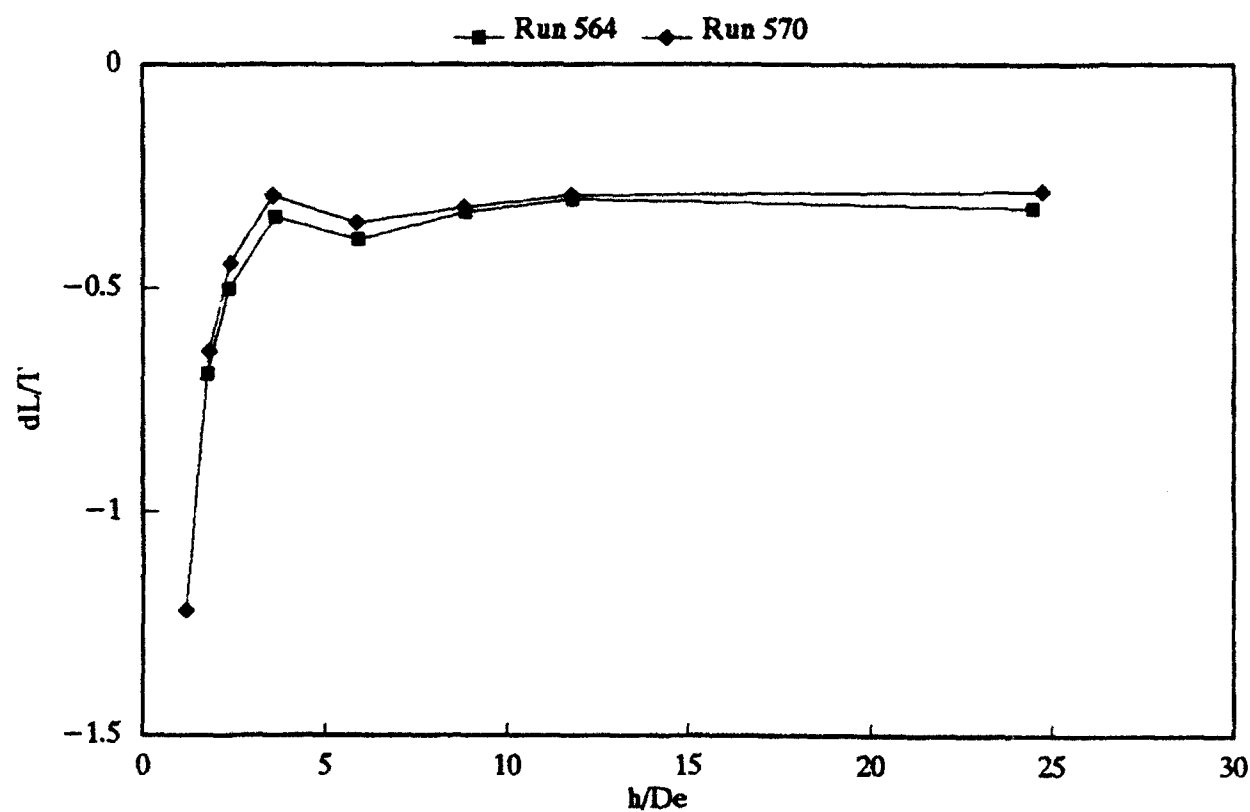
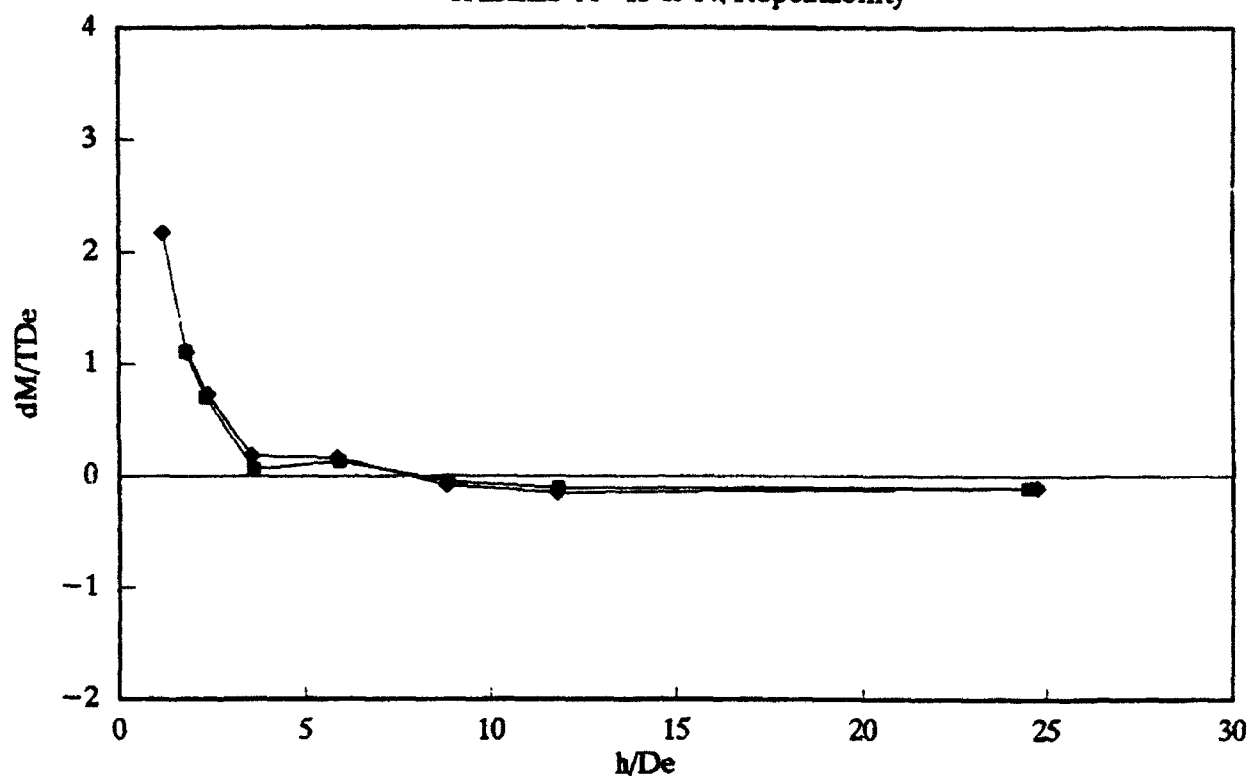


a)  $V_e = 0$

Figure 16.- Repeatability check on the jet induced increments of lift and pitching moment;  
Configuration IV - Both jets - Fixed ground board.

# CONF. IV - All Jets - NPR = 2 - $V_e = .1$

TABLES A-13 & 14, Repeatability



b)  $V_e = .1$

Figure 16.- Concluded.

## Comparison with CFD Model Data

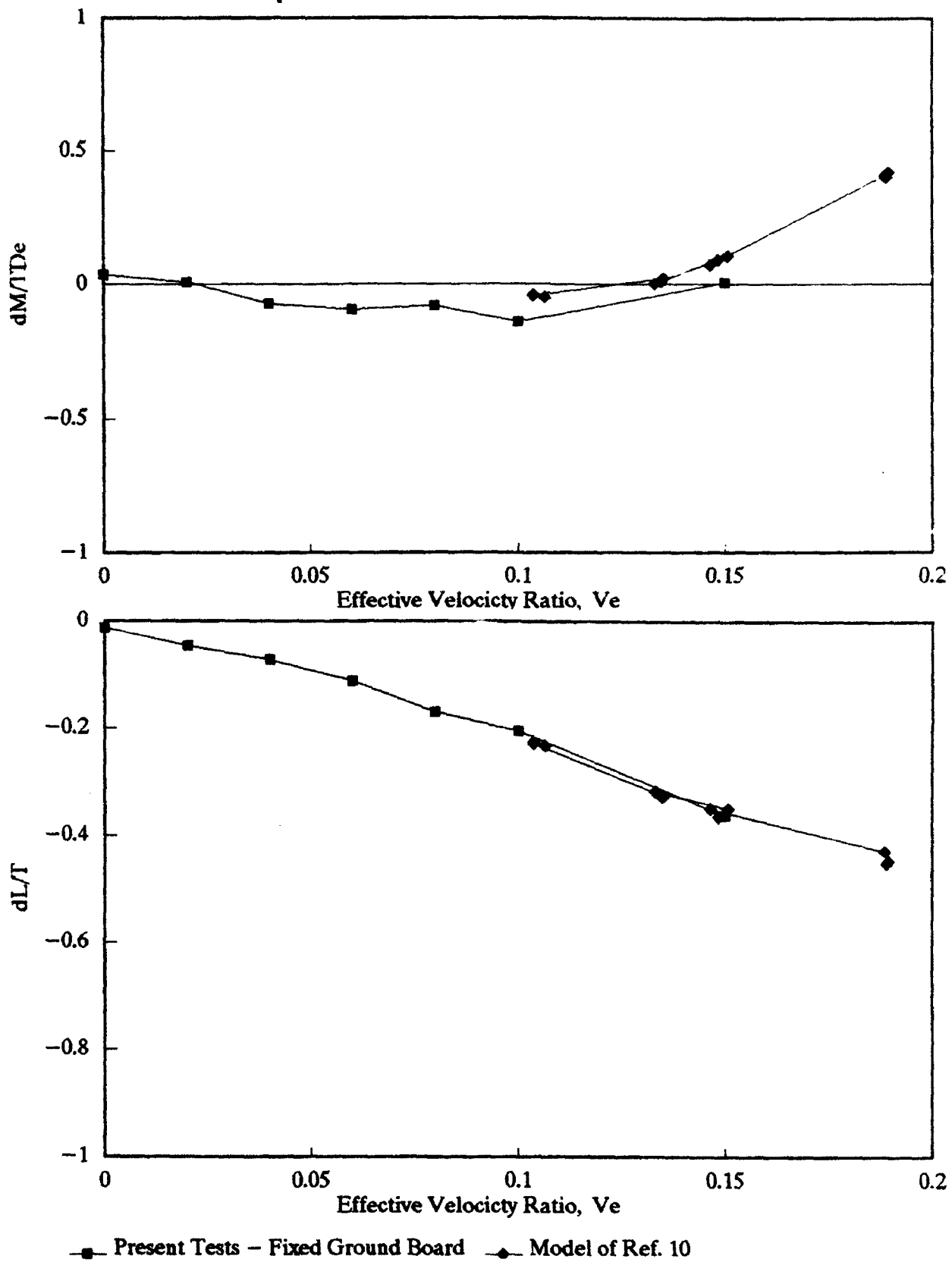


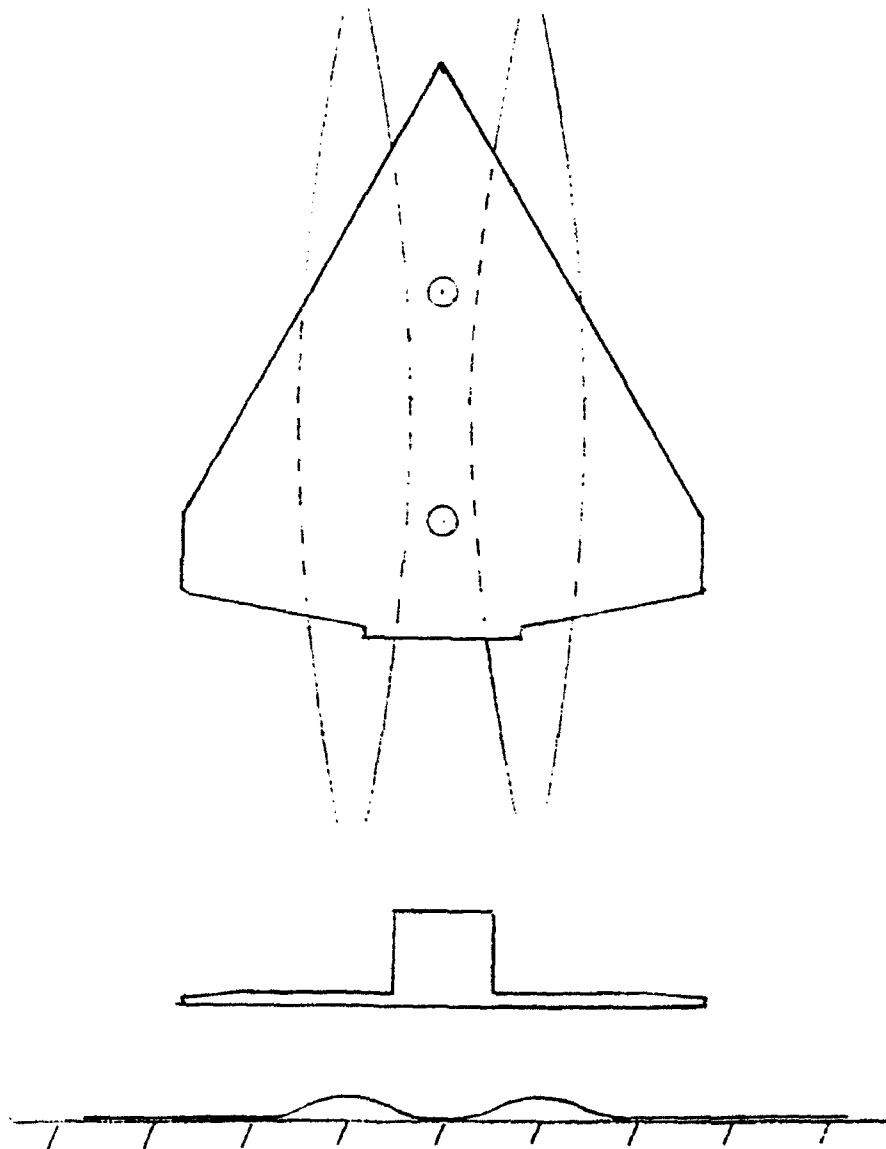
Figure 17.- Comparison of jet induced increments on present model with data from similar model of reference 10; Configuration I; NPR = 2; Out of ground effect.



a) Photograph

Figure 18.- Distortion of the belt surface under the model;  
Jets on, Tunnel and Belt speed = 0, Model height = 6 in.

## SCHEMATIC OF BELT LIFTING



b) Schematic sketch

Figure 18.- Concluded.



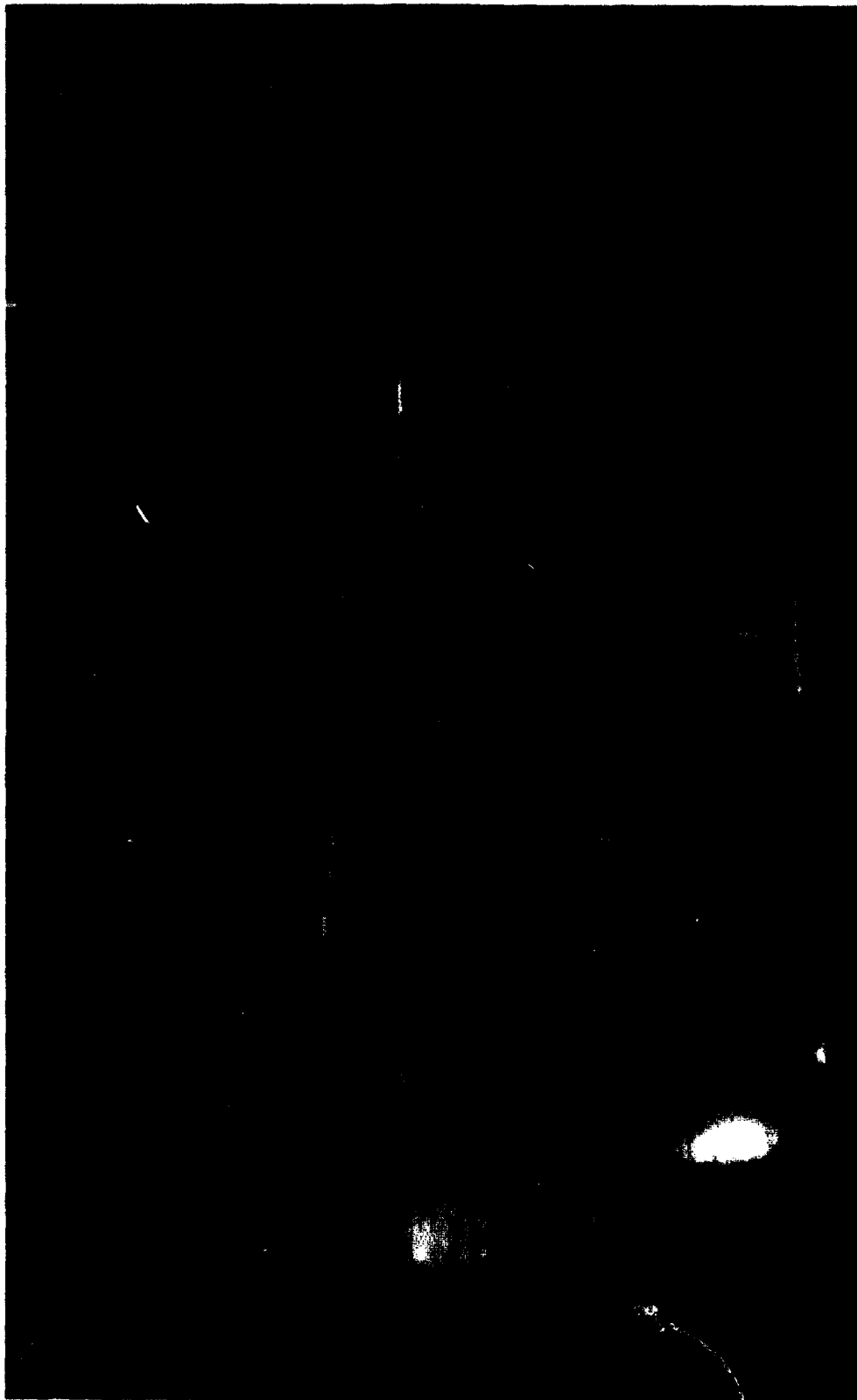


Figure 19.- Photograph of the belt lifting behind the model;  
Jets off, Tunnel on, Belt speed = 0.

# Out of Ground Effect

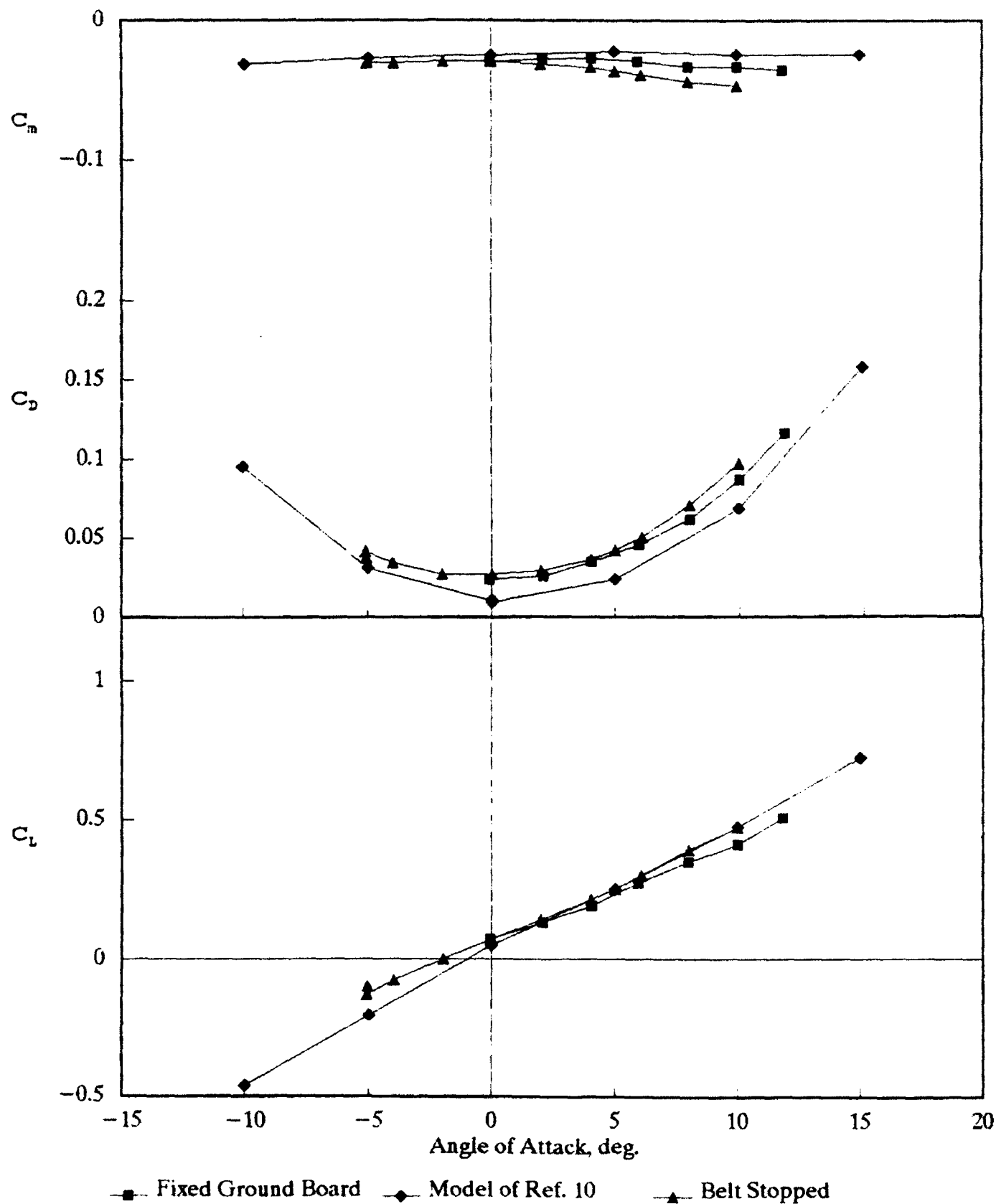


Figure 20.- Effect of angle of attack and comparison with model of reference 10.

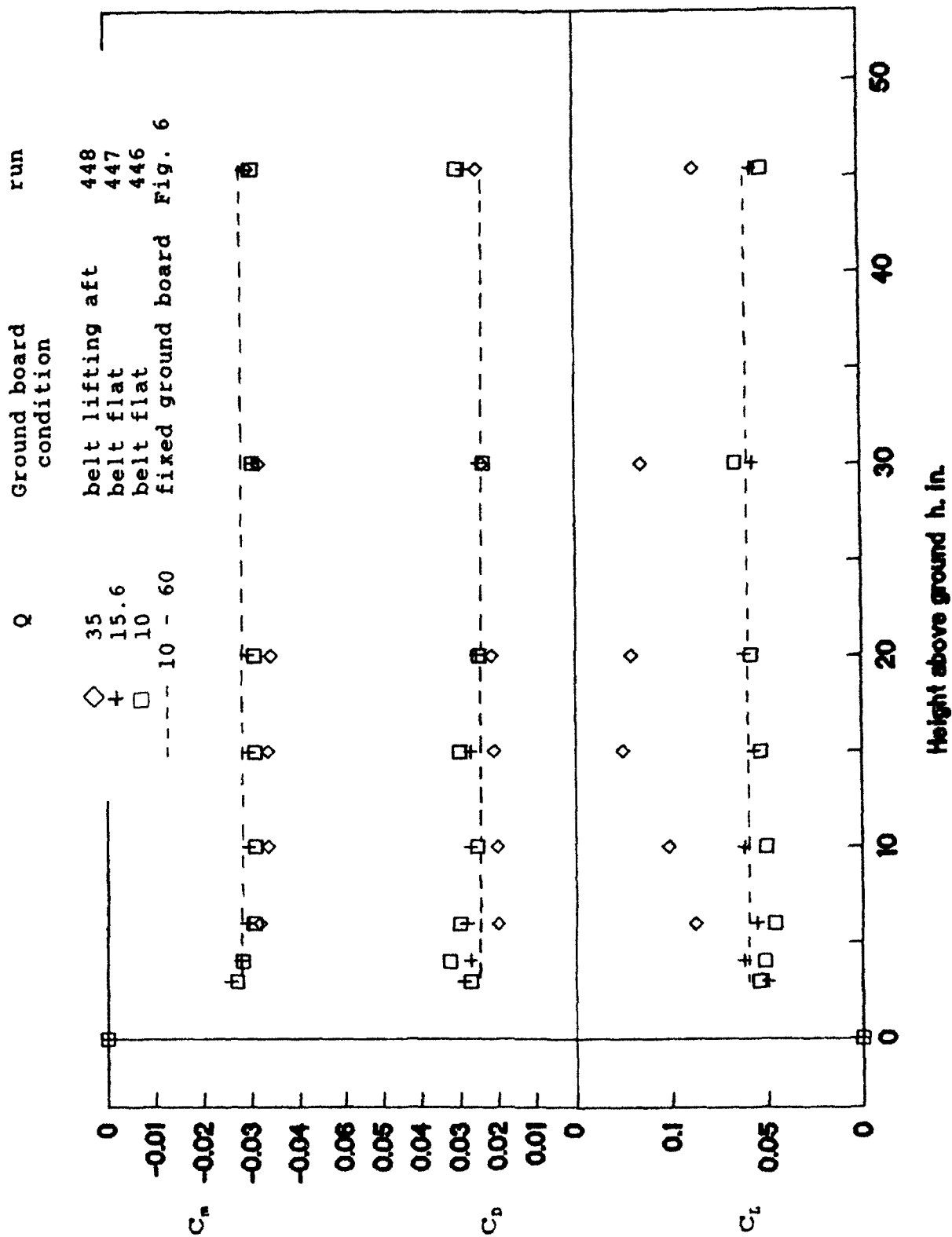
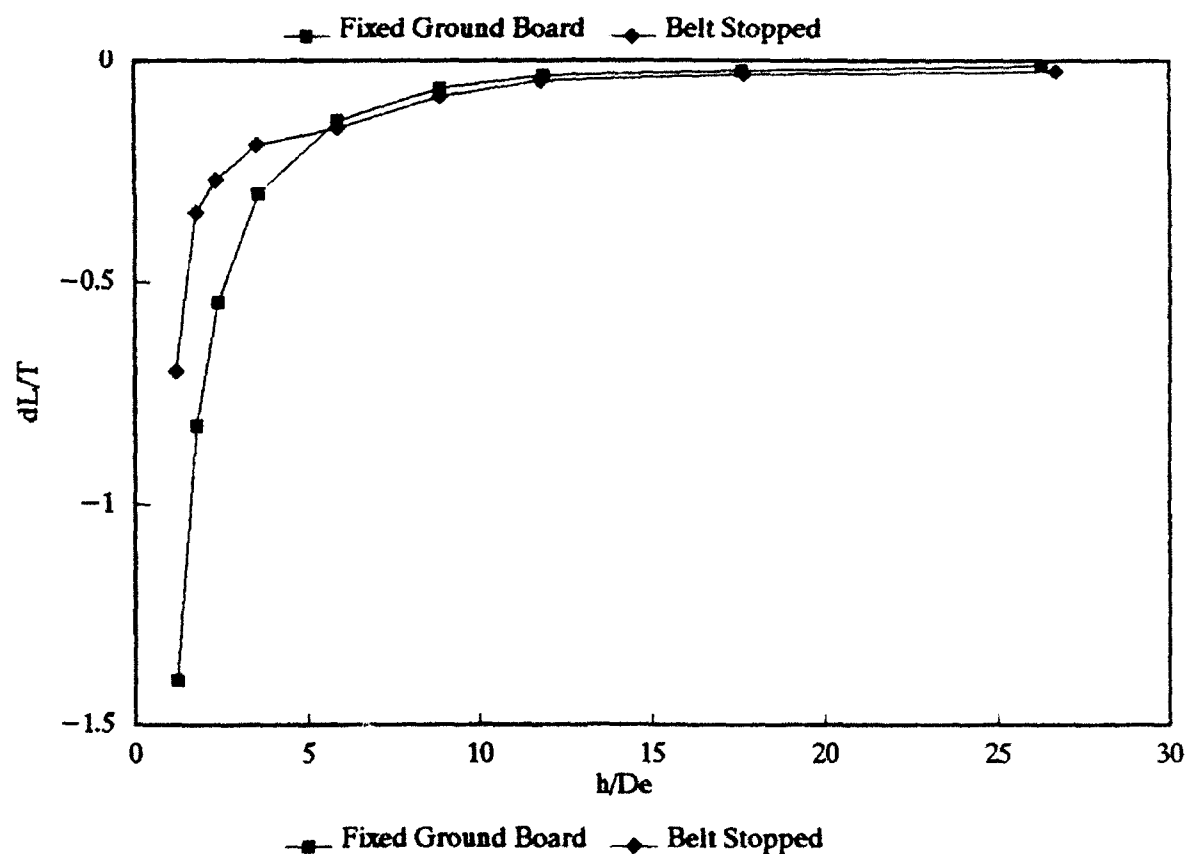
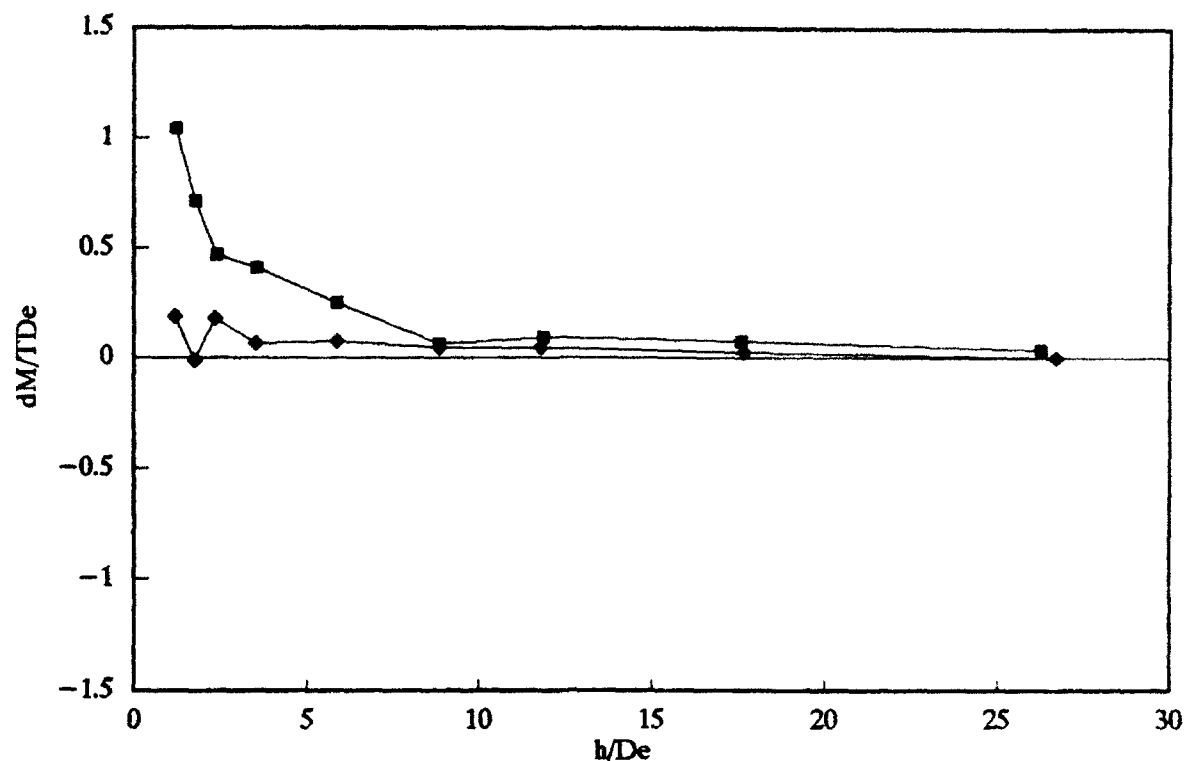


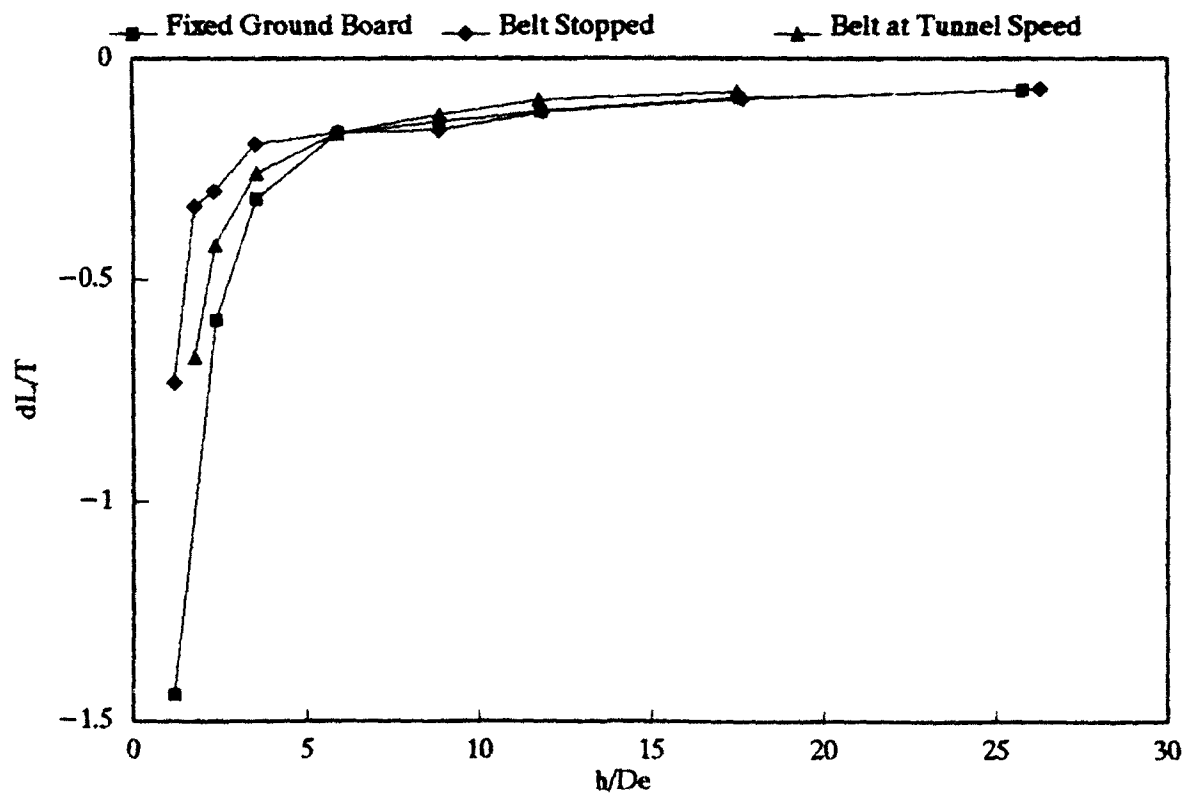
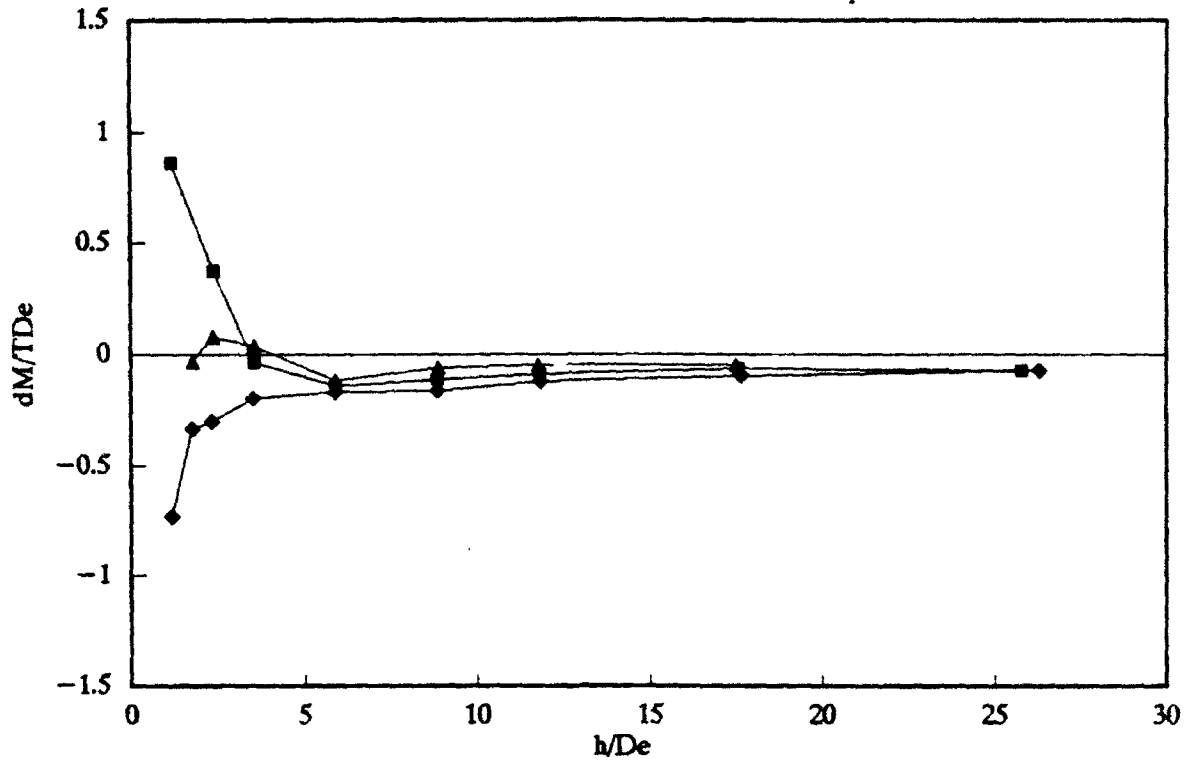
Figure 21.- Effect of belt distortion, belt stopped,  
Angle of attack = 0



a)  $V_e = 0$

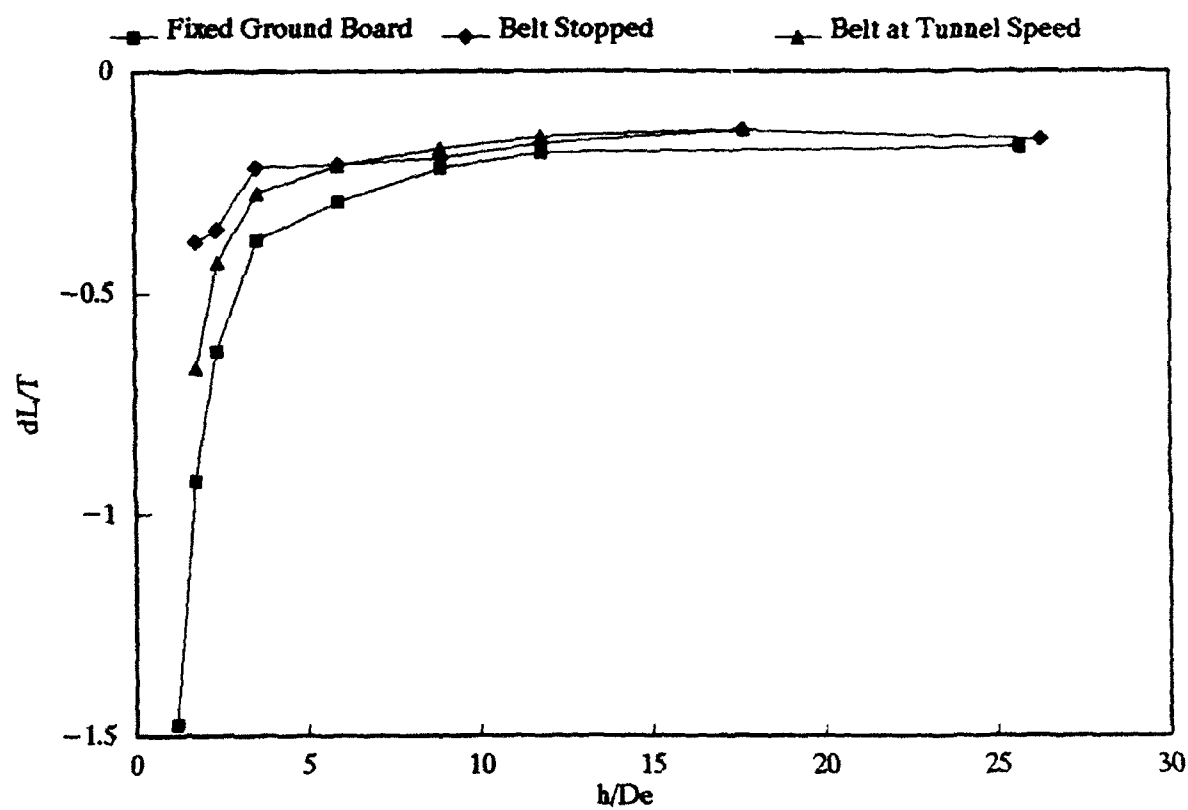
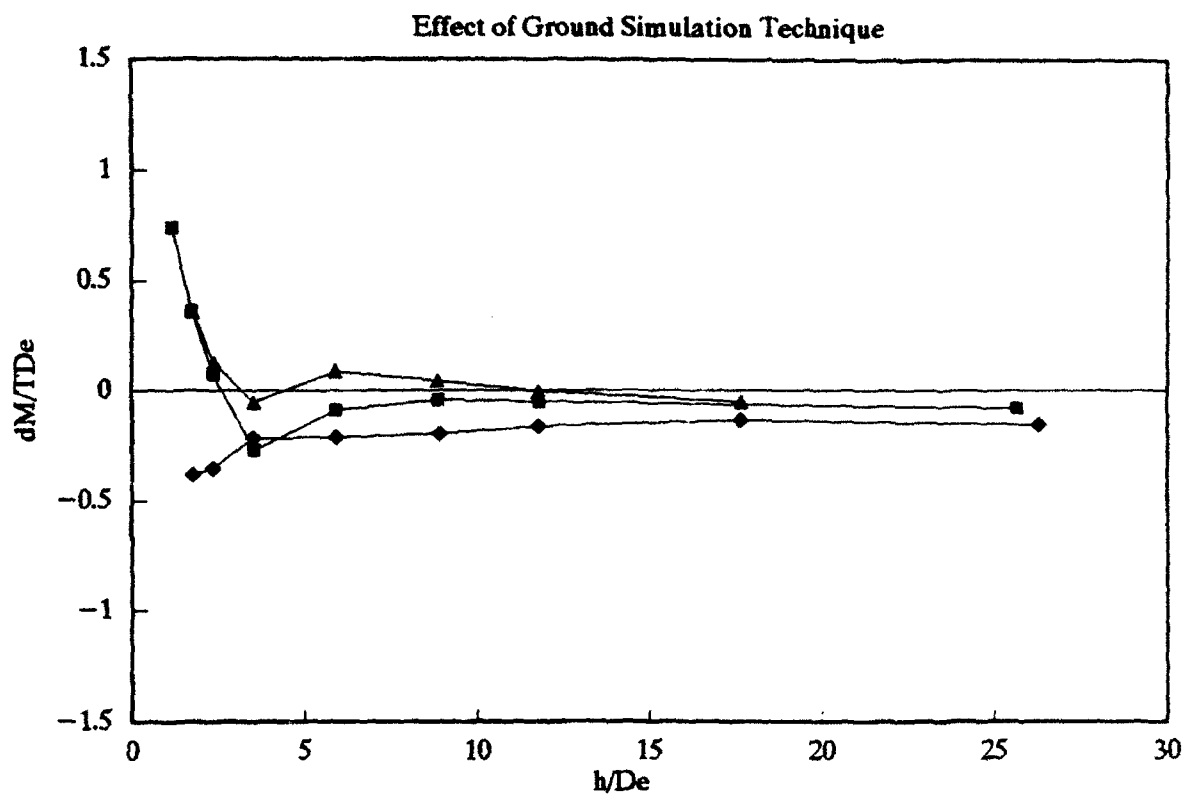
Figure 22.- Comparison of jet induced increments of lift and pitching moments measured over the fixed ground board with those measured over the belt stopped and running at tunnel speed.

# Effect of Ground Simulation Technique



b)  $V_e = .04$

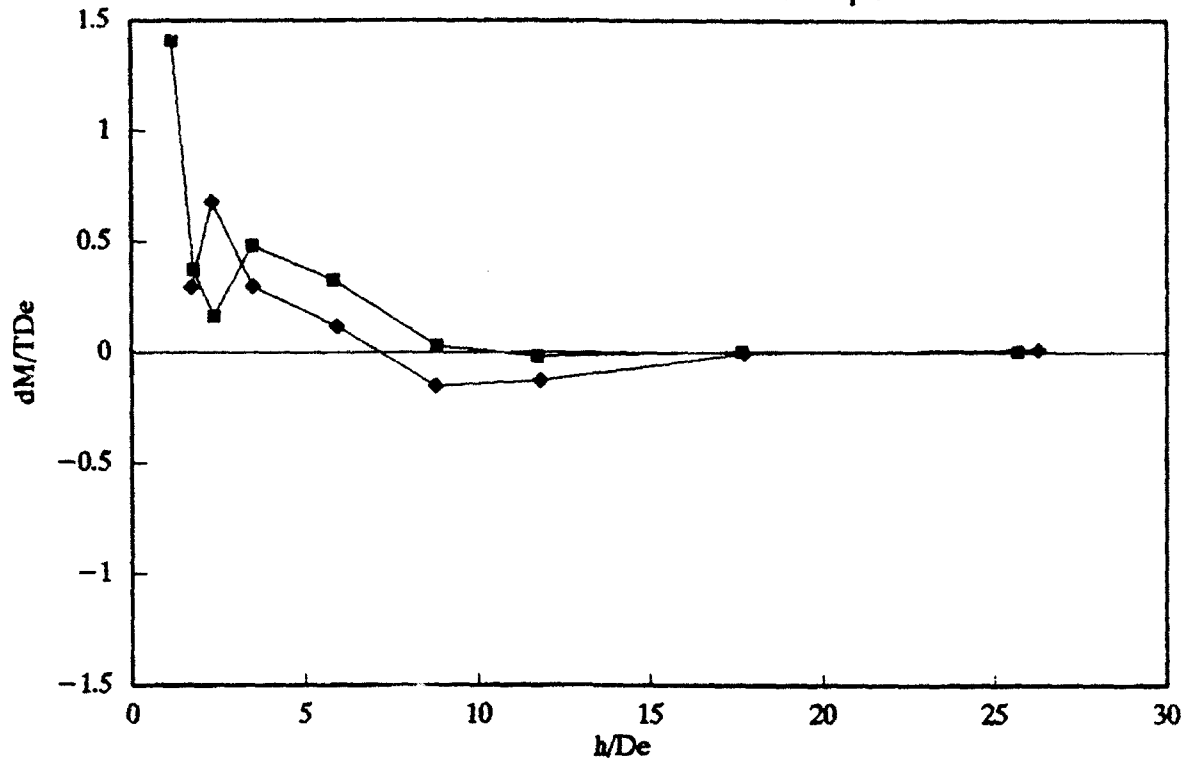
Figure 22.- Continued.



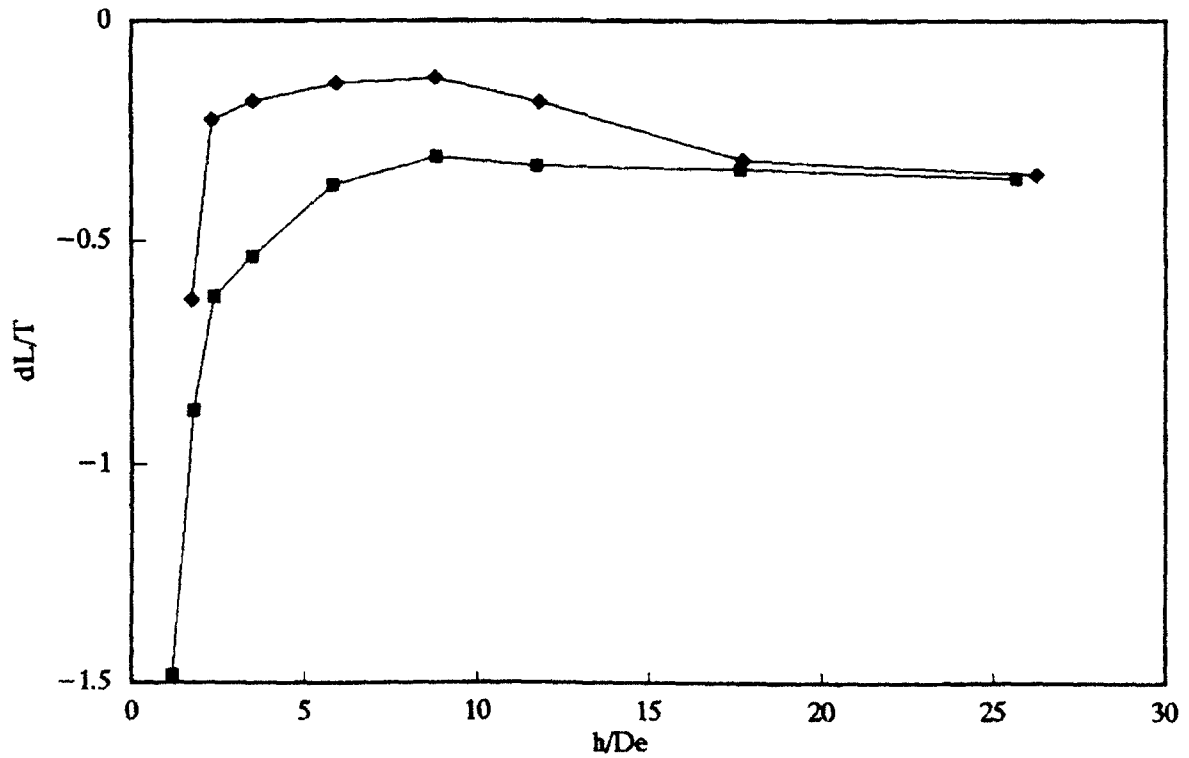
c)  $V_e = .08$

Figure 22.- Continued.

# Effect of Ground Simulation Technique



—■— Fixed Ground Board —◆— Belt Stopped



d)  $V_e = .15$

Figure 22.- Concluded.

# CONFIGURATION I - Both Jets - NPR = 2

Effect of Belt Speed - TABLE A-27 -  $V_e = 0$

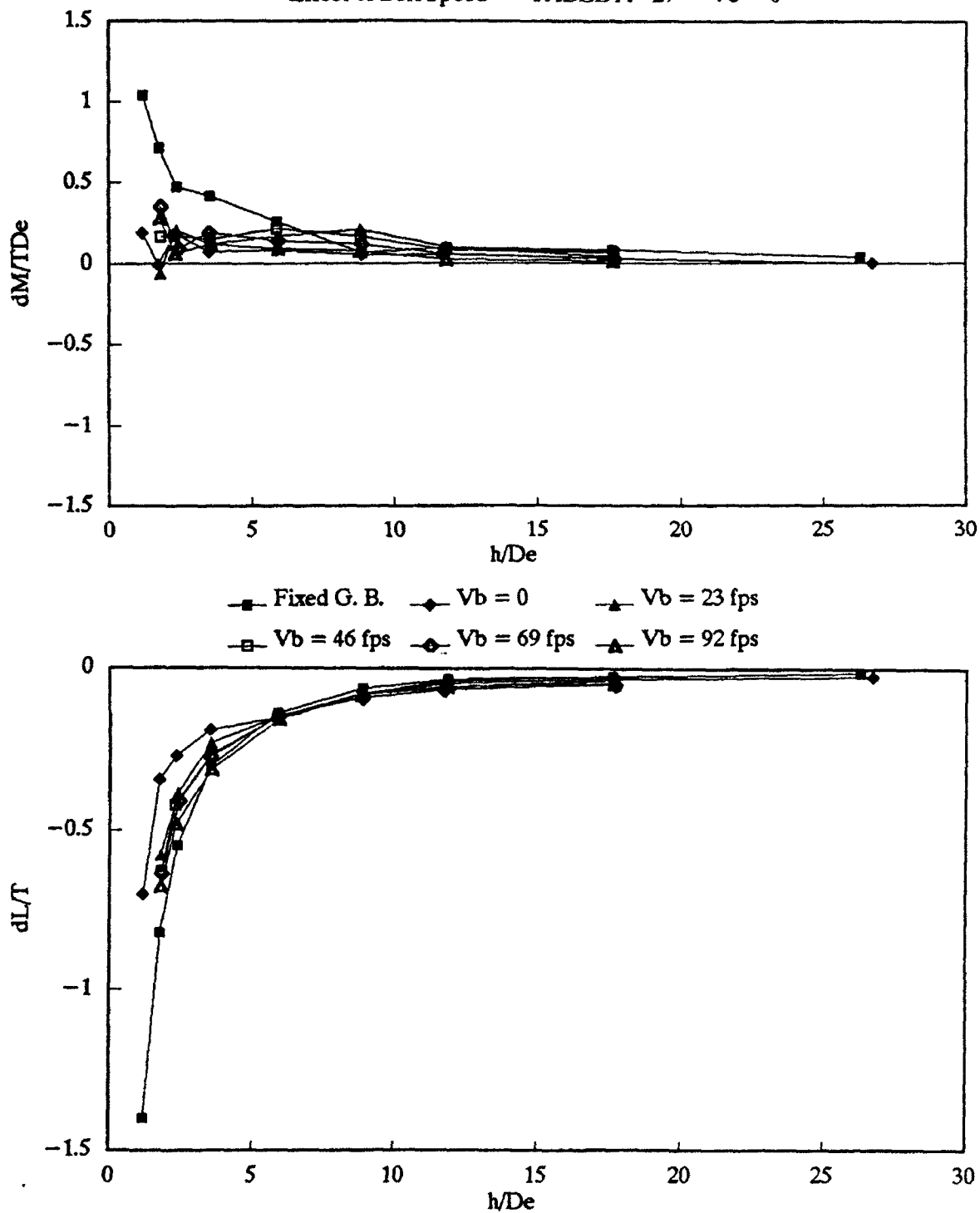


Figure 23.- Effect of belt speed at zero tunnel speed on the jet induced increments for configuration I with both jets operating at NPR = 2.



## APPENDIX A - FORCE DATA

The increments of lift, drag and pitching moment induced on the lower surface by the action of the jet(s) are presented in this appendix. The tables below and on the next page gives an overview of the figures and tables presenting the data for the various configurations.

### SUMMARY OF FORCE DATA PRESENTATION POWER ON

Fixed Ground Board						Force Data on Table & Figure
Conf. & Jet(s)	NPR	Ve	h	ALPHA	Runs	
I C12-C20	2	range	range	0	532-539	A-1
"	4	"	"	"	615-617	A-2
"	6	"	"	"	618-620	A-3
C20 alone	2	"	"	"	520-527	A-4
"	4	"	"	"	603-608	A-5
"	6	"	"	"	609-614	A-6
II C12-C24	2	"	"	"	540,543-548	A-7
"	4	"	"	"	541,549-553	A-8
"	6	0	"	"	542	A-9
C12 alone	2	range	"	"	588-595	A-10
twin C12	2	"	"	"	572-579	A-11
III twnC12-C24	2	"	"	"	580-587	A-12
IV twnC12-C20	2	"	"	"	559-564	A-13
"	2	"	"	"	565-571 repeat	A-14
V C20-C24	2	"	"	"	596-602	A-15
VI R12-R24	2	"	"	"	471-474,487,490	A-16
"	4	"	"	"	475-480	A-17
"	6	"	"	"	481-486	A-18
VII R12-R20	2	"	"	"	491-499	A-19
"	4	"	"	"	500-505	A-20
"	6	"	"	"	506-511	A-21
R20 alone	2	"	"	"	512-519	A-22

Belt Stopped						Table & Figure
Conf. & Jet(s)	NPR	Ve	h	ALPHA	Runs	
I C12-C20	2	range	range	0	407-414	A-23
C20	2	"	"	"	424-430	A-24
II C12-C24	2	"	"	"	435-441	A-25
VI R12-R24	2	"	"	"	451-455,460-461	A-26

Belt Running						Table & Figure
Conf. & Jet(s)	NPR	Ve	h	ALPHA	Runs	
I C12-C20	2	0	range	0	407,415-418	A-27
"	2	range	"	"	407,420-423	A-28
I C20	2	"	"	"	424,431-434	A-29
II C12-C24	2	"	"	"	435,442-445	A-30
VI R12-R24	2	"	"	"	451,456-459	A-31

# POWER OFF DATA

<u>Conf.</u>	<u>Ground Board</u>	<u>Q</u>	<u>h</u>	<u>ALPHA</u>	<u>Runs</u>	<u>Table</u>
I	belt stopped fixed G.B.	30	OGE	range	401 530	A-32
I	belt stopped	30	range	0 -5 5	402 403 404	A-33
I	fixed G.B.	10 30 60	range	0	528 529 531	A-34
II	belt stopped	10 15.6 35.2	range	0	446 447 448	

**TABLE A-1 - Power on Force Data**  
**Configuration I - Both Jets - NPR=2**  
**Fixed Ground Board**

Run # 532 Pressure data on Table and Figure B-1											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/1	Ve	T	Q
1	44.72	26.30	-0.012	0.037	0.005	2.01	0.497	0.503	0	51.15	0
2	29.92	17.60	-0.023	0.077	0.008	2.01	0.497	0.503	0	51.14	0
3	20.14	11.85	-0.033	0.092	0.003	2.01	0.497	0.503	0	51.07	0
4	15.06	8.86	-0.063	0.065	0.004	2.01	0.497	0.503	0	51.20	0
5	10.02	5.90	-0.137	0.253	0.003	2.01	0.497	0.503	0	51.23	0
6	6.03	3.55	-0.301	0.414	-0.003	2.01	0.497	0.503	0	51.23	0
7	4.05	2.38	-0.546	0.472	-0.003	2.04	0.497	0.503	0	52.43	0
8	3.02	1.78	-0.822	0.711	-0.003	2.04	0.497	0.503	0	52.40	0
9	2.06	1.21	-1.398	1.042	-0.008	2.04	0.497	0.503	0	52.48	0

Run# 533 Pressure data on Table and Figure B-2											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/1	Ve	T	Q
3	2.00	1.17	-1.354	1.008	-0.011	2.01	0.497	0.503	0.02	51.67	0.79
4	2.97	1.75	-0.839	0.654	-0.007	2.01	0.497	0.503	0.02	51.86	0.68
5	4.01	2.36	-0.561	0.453	-0.003	2.02	0.497	0.503	0.02	52.08	0.68
6	6.02	3.54	-0.320	0.226	-0.002	2.02	0.497	0.503	0.02	52.22	0.68
7	10.07	5.92	-0.118	-0.024	-0.007	2.02	0.497	0.503	0.02	52.23	0.68
8	15.01	8.83	-0.087	0.049	-0.001	2.02	0.497	0.503	0.02	52.37	0.68
9	20.11	11.83	-0.067	0.014	-0.001	2.03	0.497	0.503	0.02	52.50	0.57
10	30.02	17.66	-0.057	0.019	0.001	2.03	0.497	0.503	0.02	52.62	0.57
11	43.88	25.81	-0.046	0.010	-0.001	2.03	0.497	0.503	0.02	52.70	0.57

Run# 535 Pressure data on Table and Figure B-3											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/1	Ve	T	Q
2	43.84	25.79	-0.072	-0.070	-0.003	2.00	0.498	0.502	0.04	51.40	2.49
3	29.91	17.59	-0.089	-0.059	-0.003	2.01	0.498	0.502	0.04	51.67	2.49
4	20.05	11.79	-0.120	-0.086	-0.003	2.01	0.498	0.502	0.04	51.85	2.61
5	15.02	8.84	-0.144	-0.113	-0.001	2.01	0.498	0.502	0.04	51.86	2.49
6	10.02	5.89	-0.170	-0.139	0.000	2.01	0.497	0.503	0.04	51.90	2.38
7	6.03	3.55	-0.319	-0.032	-0.004	2.01	0.498	0.502	0.04	51.78	2.49
8	4.07	2.40	-0.592	0.374	-0.002	2.01	0.497	0.503	0.04	51.72	2.61
10	1.99	1.17	-1.440	0.860	-0.010	2.01	0.497	0.503	0.04	51.70	2.49

Run# 536 Pressure data on Table and Figure B-4											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/1	Ve	T	Q
1	1.98	1.17	-1.453	0.722	-0.013	2.01	0.497	0.503	0.06	51.75	5.67
2	2.98	1.75	-0.876	0.408	-0.004	2.01	0.497	0.503	0.06	51.77	5.55
3	3.99	2.35	-0.593	0.203	-0.010	2.01	0.497	0.503	0.06	51.73	5.67
4	6.01	3.53	-0.341	-0.205	-0.008	2.01	0.497	0.503	0.06	51.82	5.67
5	10.09	5.93	-0.249	-0.150	-0.002	2.01	0.497	0.503	0.06	51.88	5.67
6	15.01	8.83	-0.194	-0.096	0.002	2.02	0.497	0.503	0.06	51.97	5.55
7	20.10	11.83	-0.156	-0.072	0.000	2.02	0.497	0.503	0.06	51.95	5.67
8	30.01	17.66	-0.123	-0.083	0.000	2.02	0.497	0.503	0.06	51.97	5.55
9	43.65	25.68	-0.111	-0.092	0.001	2.02	0.497	0.503	0.06	52.00	5.44

**TABLE 1 – Concluded.**

Run# 537                      Pressure data on Table and Figure B-5

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/I	Ve	T	Q
1	43.64	25.67	-0.169	-0.080	0.000	2.02	0.497	0.503	0.08	52.14	10.09
2	20.07	11.80	-0.183	-0.049	0.002	2.02	0.497	0.503	0.08	52.11	10.20
3	15.06	8.86	-0.218	-0.040	0.002	2.02	0.497	0.503	0.08	52.14	10.09
4	10.03	5.90	-0.293	-0.086	0.000	2.02	0.497	0.503	0.08	52.15	10.09
5	6.01	3.53	-0.378	-0.269	-0.010	2.02	0.497	0.503	0.08	52.18	10.20
6	4.01	2.36	-0.629	0.075	-0.013	2.02	0.497	0.503	0.08	52.15	10.20
7	2.99	1.76	-0.926	0.359	-0.010	2.02	0.497	0.503	0.08	52.19	10.09
8	2.01	1.18	-1.475	0.739	-0.011	2.02	0.497	0.503	0.08	52.25	10.09

Run# 538                      Pressure data on Table and Figure B-6

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/I	Ve	T	Q
1	2.03	1.19	-1.477	0.867	-0.012	2.03	0.497	0.503	0.10	52.22	15.41
2	3.02	1.78	-0.905	0.329	-0.008	2.03	0.497	0.503	0.10	52.29	15.53
3	4.07	2.39	-0.615	-0.035	-0.011	2.03	0.497	0.503	0.10	52.29	15.53
4	6.03	3.55	-0.425	-0.210	-0.007	2.03	0.497	0.503	0.10	52.31	15.64
5	10.09	5.94	-0.326	0.035	0.005	2.03	0.497	0.503	0.10	52.31	15.53
6	15.07	8.87	-0.243	-0.036	0.006	2.03	0.497	0.503	0.10	52.31	15.41
7	20.03	11.78	-0.208	-0.123	0.003	2.03	0.497	0.503	0.10	52.36	15.53
8	29.92	17.60	-0.192	-0.156	-0.005	2.03	0.498	0.502	0.10	52.27	15.41
9	43.69	25.70	-0.204	-0.141	-0.001	2.03	0.497	0.503	0.10	52.29	15.64

Run# 539                      Pressure data on Table and Figure B-7

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/I	Ve	T	Q
1	43.65	25.68	-0.361	0.007	-0.002	1.84	0.497	0.503	0.15	44.03	29.70
2	30.04	17.67	-0.338	0.007	-0.003	1.84	0.497	0.503	0.15	43.94	29.81
3	19.94	11.73	-0.331	-0.017	0.002	1.84	0.497	0.503	0.14	44.01	29.47
4	14.97	8.80	-0.310	0.030	0.006	1.84	0.497	0.503	0.15	43.94	29.70
5	9.93	5.84	-0.374	0.327	0.016	1.84	0.497	0.503	0.15	44.00	29.92
6	5.94	3.50	-0.535	0.481	0.013	1.84	0.497	0.503	0.15	44.04	29.81
7	4.05	2.38	-0.627	0.166	-0.005	1.84	0.497	0.503	0.15	43.90	29.58
8	3.06	1.80	-0.878	0.376	-0.000	1.84	0.497	0.503	0.15	43.99	29.58
9	2.01	1.18	-1.481	1.410	0.003	1.84	0.497	0.503	0.15	43.93	29.58

**TABLE A-2 -- Power on Force Data**  
**Configuration I -- Both Jets -- NPR=4**  
**Fixed Ground Board**

Run# 615 Pressure data on Table and Figure B-8											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	42.63	25.08	-0.015	0.025	-0.002	3.94	0.497	0.503	0	134.59	0
3	20.02	11.78	-0.035	0.070	-0.000	4.01	0.497	0.503	0	137.76	0
4	15.04	8.85	-0.060	0.054	-0.002	4.01	0.497	0.503	0	137.71	0
5	10.03	5.90	-0.121	0.048	-0.005	4.03	0.497	0.503	0	138.67	0
6	6.07	3.57	-0.288	0.333	-0.005	4.03	0.497	0.503	0	138.57	0
7	4.03	2.37	-0.550	0.663	-0.004	4.01	0.497	0.503	0	137.68	0
8	3.08	1.81	-0.883	0.875	-0.000	4.02	0.497	0.503	0	137.97	0

Run# 616 Pressure data on Table and Figure B-9											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	3.06	1.80	-0.906	0.788	0.002	4.05	0.497	0.503	0.04	138.75	4.99
2	4.03	2.37	-0.574	0.593	0.000	4.05	0.497	0.503	0.04	138.76	4.99
3	6.03	3.54	-0.294	0.045	-0.000	4.05	0.497	0.503	0.04	138.80	5.10
4	9.97	5.87	-0.139	-0.133	-0.001	4.05	0.497	0.503	0.04	138.86	4.99
5	15.06	8.86	-0.103	-0.129	-0.000	4.06	0.497	0.503	0.04	139.03	4.99
6	20.01	11.77	-0.096	-0.109	0.000	4.06	0.497	0.503	0.04	139.11	4.99
7	40.40	23.77	-0.062	-0.091	0.001	4.06	0.497	0.503	0.04	139.13	4.87

Run# 617 Pressure data on Table and Figure B-10											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	40.38	23.75	-0.120	-0.091	0.001	4.09	0.497	0.503	0.08	139.49	20.17
2	20.08	11.81	-0.159	-0.050	0.002	4.09	0.497	0.503	0.08	139.49	20.17
3	15.07	8.86	-0.197	-0.053	0.002	4.09	0.497	0.503	0.08	139.49	20.06
4	10.05	5.91	-0.265	-0.157	-0.001	4.09	0.497	0.503	0.08	139.53	20.29
5	6.05	3.56	-0.348	-0.189	-0.003	4.09	0.497	0.503	0.08	139.50	20.29
6	4.07	2.39	-0.629	0.358	-0.001	4.09	0.497	0.503	0.08	139.35	20.29
7	3.04	1.79	-0.977	0.587	-0.001	4.09	0.497	0.503	0.08	139.61	20.40

**TABLE A-3 - Power on Force Data**  
**Configuration I - Both Jets - NPR=6**  
**Fixed Ground Board**

Run# 618

Pressure data on Table and Figure B-11

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
4	38.73	22.78	-0.015	0.027	0.000	6.01	0.497	0.503	0	228.33	0
5	20.04	11.79	-0.031	0.055	-0.001	5.98	0.498	0.502	0	227.02	0
6	15.03	8.84	-0.051	0.023	-0.002	5.97	0.497	0.503	0	226.17	0
7	10.01	5.89	-0.121	0.041	-0.003	5.96	0.497	0.503	0	225.87	0
8	6.02	3.54	-0.296	0.437	-0.003	5.95	0.497	0.503	0	225.50	0
9	4.06	2.39	-0.571	0.798	-0.003	5.94	0.497	0.503	0	225.20	0
10	3.08	1.81	-0.868	0.876	0.000	5.94	0.497	0.503	0	224.99	0

Run# 619

Pressure data on Table and Figure B-12

Point	h,in.	h/De	Pressure	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.05	1.79	-0.916	0.862	0.001	6.03	0.497	0.503	0.04	227.57	7.48
2	4.00	2.35	-0.590	0.735	-0.001	6.04	0.497	0.503	0.04	228.07	7.48
3	6.04	3.55	-0.298	0.214	-0.000	6.06	0.497	0.503	0.04	228.94	7.37
4	10.05	5.91	-0.137	-0.094	-0.002	6.06	0.498	0.502	0.04	228.98	7.48
5	15.01	8.83	-0.092	-0.089	-0.001	6.07	0.498	0.502	0.04	229.21	7.37
6	20.08	11.81	-0.092	-0.077	-0.001	6.07	0.498	0.502	0.04	229.32	7.48
7	39.02	22.95	-0.065	-0.050	0.000	6.08	0.498	0.502	0.04	229.64	7.25

Run# 620

Pressure data on Table and Figure B-13

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	39.00	22.94	-0.121	-0.049	-0.000	6.16	0.498	0.502	0.08	230.84	30.60
2	20.01	11.77	-0.161	-0.006	0.001	6.15	0.498	0.502	0.08	230.49	30.38
3	15.06	8.86	-0.195	-0.006	0.001	6.16	0.498	0.502	0.08	231.10	30.60
4	10.04	5.90	-0.262	-0.101	-0.002	6.17	0.498	0.502	0.08	231.25	30.71
5	6.08	3.57	-0.335	-0.033	-0.004	6.36	0.498	0.502	0.08	240.26	30.71
6	4.06	2.39	-0.614	0.584	0.000	6.51	0.498	0.502	0.08	246.80	30.38
7	3.01	1.77	-0.927	0.813	-0.000	6.17	0.498	0.502	0.08	231.38	30.38

**TABLE A-4 - Power on Force Data**  
**Configuration I - Rear Jet Alone - NPR=2**  
**Fixed Ground Board**

Run# 520 Pressure data on Table and Figure B-14											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	44.44	37.03	0.005	0.118	-0.008	2.00	0	1	0	25.32	0
3	30.03	25.03	-0.026	-0.033	-0.002	2.00	0	1	0	25.38	0
4	19.99	16.66	-0.023	0.076	-0.004	2.00	0	1	0	25.40	0
5	15.01	12.51	-0.040	0.092	-0.006	2.01	0	1	0	25.43	0
6	9.99	8.32	-0.131	-0.095	0.004	2.01	0	1	0	25.49	0
7	6.03	5.02	-0.339	-0.174	0.002	2.01	0	1	0	25.48	0
8	4.02	3.35	-0.762	-0.233	0.001	2.01	0	1	0	25.51	0
9	3.02	2.51	-1.271	-0.150	0.010	2.02	0	1	0	25.56	0
10	2.02	1.69	-2.204	0.055	0.010	2.02	0	1	0	25.56	0

Run# 521 Pressure data on Table and Figure B-15											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
4	6.01	5.01	-0.384	-0.747	-0.026	1.99	0	1	0.02	25.60	0.68
5	10.03	8.35	-0.164	-0.328	-0.021	2.00	0	1	0.02	25.66	0.68
6	15.01	12.51	-0.084	-0.109	-0.012	2.00	0	1	0.02	25.75	0.68
7	20.05	16.71	-0.048	-0.092	-0.014	2.00	0	1	0.02	25.77	0.68
8	30.00	25.00	-0.036	-0.007	-0.018	2.00	0	1	0.02	25.75	0.68
9	44.42	37.02	-0.017	0.074	-0.023	2.00	0	1	0.02	25.78	0.68

Run# 522 Pressure data on Table and Figure B-16											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	44.42	37.02	-0.053	-0.027	-0.018	2.01	0	1	0.04	25.85	2.49
2	30.05	25.04	-0.070	-0.030	-0.021	2.01	0	1	0.04	25.87	2.61
3	20.05	16.71	-0.121	-0.207	-0.022	2.01	0	1	0.04	25.89	2.61
4	15.07	12.56	-0.190	-0.543	-0.021	2.01	0	1	0.04	25.95	2.61
5	10.08	8.40	-0.257	-0.866	-0.026	2.01	0	1	0.04	25.97	2.72
6	6.04	5.04	-0.527	-1.119	-0.026	2.01	0	1	0.04	25.99	2.61
7	4.06	3.39	-0.889	-1.676	-0.022	2.01	0	1	0.04	26.00	2.61
8	3.02	2.52	-1.332	-1.075	-0.015	2.01	0	1	0.04	25.97	2.49
9	2.02	1.68	-2.155	0.583	-0.005	2.01	0	1	0.04	26.01	2.61

Run# 523 Pressure data on Table and Figure B-17											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.02	1.68	-2.073	1.229	0.003	2.02	0	1	0.06	26.10	5.55
2	3.10	2.59	-1.282	-0.737	0.009	2.02	0	1	0.06	26.08	5.55
3	4.00	3.33	-0.937	-1.326	0.000	2.02	0	1	0.06	26.15	5.55
4	6.01	5.01	-0.576	-1.350	-0.016	2.02	0	1	0.06	26.13	5.55
5	10.05	8.38	-0.369	-0.831	-0.015	2.02	0	1	0.06	26.15	5.55
6	15.05	12.54	-0.194	-0.229	-0.009	2.02	0	1	0.06	26.17	5.55
7	20.04	16.70	-0.121	-0.047	-0.011	2.02	0	1	0.06	26.16	5.55
8	30.06	25.05	-0.081	0.013	-0.018	2.02	0	1	0.06	26.11	5.55
9	44.50	37.08	0.036	0.662	-0.011	2.01	0	1	0.06	25.95	5.67

**TABLE A-4 - Concluded**

Run# 524		Pressure data on Table and Figure B-18									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.42	37.02	-0.143	-0.022	-0.014	2.03	0	1	0.08	26.23	10.09
2	29.99	24.99	-0.127	-0.011	-0.015	2.03	0	1	0.08	26.22	10.09
3	20.03	16.69	-0.139	0.003	-0.008	2.03	0	1	0.08	26.23	10.09
4	15.03	12.52	-0.187	-0.001	-0.008	2.03	0	1	0.08	26.26	10.20
5	10.02	8.35	-0.334	-0.144	-0.007	2.03	0	1	0.08	26.27	10.20
6	6.01	5.01	-0.648	-0.811	-0.007	2.03	0	1	0.08	26.27	10.20
7	4.04	3.36	-0.925	-0.883	0.010	2.03	0	1	0.08	26.27	10.20
8	3.03	2.53	-1.230	-0.022	0.025	2.03	0	1	0.08	26.27	10.20
9	2.00	1.67	-1.963	1.919	0.011	2.03	0	1	0.08	26.28	10.09

Run# 525		Pressure data on Table and Figure B-19									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.02	1.68	-1.774	2.526	0.020	2.04	0	1	0.10	26.36	15.53
2	2.99	2.50	-1.125	0.457	0.027	2.04	0	1	0.10	26.36	15.64
3	3.97	3.31	-0.901	-0.238	0.013	2.04	0	1	0.10	26.40	15.64
4	6.08	5.07	-0.628	-0.118	-0.005	2.04	0	1	0.10	26.37	15.75
5	10.06	8.39	-0.324	0.178	-0.001	2.04	0	1	0.10	26.41	15.64
6	14.99	12.50	-0.213	0.020	-0.001	2.04	0	1	0.10	26.44	15.41
7	20.04	16.70	-0.159	0.107	-0.014	2.04	0	1	0.10	26.35	15.41
8	30.02	25.02	-0.200	-0.003	-0.007	2.04	0	1	0.10	26.40	15.53
9	44.40	37.00	-0.199	0.016	-0.008	2.04	0	1	0.10	26.39	15.64

Run# 526		Pressure data on Table and Figure B-20									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.38	36.98	-0.388	0.356	0.006	2.00	0	1	0.15	25.35	35.36
2	30.05	25.04	-0.332	0.416	-0.001	2.00	0	1	0.15	25.34	35.02
3	20.11	16.76	-0.305	0.513	0.002	2.00	0	1	0.15	25.36	35.36
5	14.98	12.49	-0.288	0.498	0.004	2.00	0	1	0.15	25.37	35.25
6	10.08	8.40	-0.275	0.639	0.023	2.00	0	1	0.15	25.36	35.14
7	6.05	5.34	-0.438	1.654	0.019	2.00	0	1	0.15	25.40	35.36
8	4.00	3.33	-0.753	1.977	0.020	2.00	0	1	0.15	25.37	35.25
9	2.98	2.48	-0.886	2.389	0.018	2.01	0	1	0.15	25.42	35.48
10	2.02	1.69	-1.275	3.809	0.047	2.00	0	1	0.15	25.40	35.25

Run# 527		Pressure data on Table and Figure B-21									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.06	1.71	-0.985	5.188	0.048	2.03	0	1	0.20	25.65	63.02
2	3.05	2.54	-0.758	4.265	0.030	2.03	0	1	0.20	25.58	63.02
3	4.04	3.36	-0.453	3.947	0.025	2.03	0	1	0.20	25.57	62.68
5	10.15	8.46	-0.254	1.388	0.030	2.01	0	1	0.20	25.16	62.45
6	15.02	12.51	-0.270	1.484	0.015	2.01	0	1	0.20	25.13	62.90
7	19.82	16.52	-0.422	1.056	0.035	2.01	0	1	0.20	25.15	62.68
8	30.13	25.11	-0.293	1.379	0.013	2.01	0	1	0.20	25.16	62.56
9	44.41	37.01	-0.359	1.344	0.023	2.01	0	1	0.20	25.17	62.22



**TABLE A-5 - Power on Force Data  
Configuration I - Rear Jet Alone - NPR=4  
Fixed Ground Board**

Run# 603 Pressure data on Table and Figure B-22											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	41.79	34.82	-0.011	-0.001	-0.000	4.02	0	1	0	69.12	0
3	20.05	16.71	-0.031	-0.025	-0.000	4.02	0	1	0	69.08	0
4	15.00	12.50	-0.044	-0.023	-0.003	4.02	0	1	0	69.04	0
5	10.02	8.35	-0.119	-0.148	-0.001	4.02	0	1	0	69.11	0
6	6.01	5.00	-0.314	-0.216	0.000	4.02	0	1	0	69.05	0
7	4.03	3.36	-0.742	-0.371	0.002	4.02	0	1	0	69.00	0
8	3.02	2.51	-1.360	-0.376	0.001	4.02	0	1	0	69.01	0

Run# 604 Pressure data on Table and Figure B-23											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.97	2.47	-1.545	-0.451	0.003	4.03	0	1	0.02	69.19	1.25
2	4.07	3.39	-0.774	-0.928	0.002	4.03	0	1	0.02	69.29	1.13
3	6.04	5.04	-0.375	-0.833	0.000	4.03	0	1	0.02	69.27	1.13
4	10.02	8.35	-0.156	-0.439	-0.002	4.03	0	1	0.02	69.32	1.13
5	15.02	12.52	-0.081	-0.306	-0.001	4.03	0	1	0.02	69.32	1.36
6	20.04	16.70	-0.050	-0.241	-0.000	4.03	0	1	0.02	69.36	1.47
7	41.78	34.81	-0.043	-0.230	0.000	4.04	0	1	0.02	69.46	1.25

Run# 605 Pressure data on Table and Figure B-24											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	41.78	34.81	-0.057	-0.203	-0.001	4.04	0	1	0.04	69.48	4.99
2	20.08	16.73	-0.130	-0.488	-0.003	4.05	0	1	0.04	69.53	5.10
3	15.09	12.57	-0.183	-0.777	-0.006	4.05	0	1	0.04	69.55	5.21
4	10.09	8.41	-0.235	-1.071	-0.005	4.05	0	1	0.04	69.57	5.21
5	6.01	5.01	-0.529	-1.343	-0.009	4.05	0	1	0.04	69.60	5.21
6	4.06	3.38	-0.843	-1.770	-0.010	4.05	0	1	0.04	69.59	5.21
7	3.06	2.55	-1.457	-0.871	0.012	4.05	0	1	0.04	69.67	5.10

Run# 606 Pressure data on Table and Figure B-25											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	3.07	2.56	-1.415	-0.356	0.028	4.06	0	1	0.06	69.71	11.33
2	4.04	3.36	-0.960	-1.718	0.008	4.07	0	1	0.06	69.79	11.33
3	6.05	5.04	-0.551	-1.561	-0.006	4.06	0	1	0.06	69.72	11.33
4	10.02	8.35	-0.360	-1.179	-0.005	4.06	0	1	0.06	69.76	10.99
5	15.08	12.57	-0.214	-0.585	-0.000	4.07	0	1	0.06	69.79	11.11
6	20.07	16.73	-0.138	-0.331	0.003	4.06	0	1	0.06	69.75	11.11
7	41.77	34.81	-0.079	-0.229	0.002	4.07	0	1	0.06	69.77	11.22

**TABLE A-5 -- Concluded**

Run# 607                      Pressure data on Table and Figure B-26											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.76	34.80	-0.141	-0.311	0.002	4.01	0	1	0.08	68.30	20.29
2	20.03	16.69	-0.164	-0.288	0.004	4.01	0	1	0.08	68.25	20.29
3	15.07	12.56	-0.223	-0.342	0.008	4.01	0	1	0.08	68.32	20.06
4	10.06	8.39	-0.397	-0.722	0.003	4.01	0	1	0.08	68.30	19.95
5	6.06	5.05	-0.681	-1.591	0.004	4.02	0	1	0.08	68.39	20.29
6	4.02	3.35	-0.922	-1.363	0.017	4.02	0	1	0.08	68.40	20.29
7	3.02	2.52	-1.342	-0.003	0.041	4.02	0	1	0.08	68.36	19.95

Run# 608                      Pressure data on Table and Figure B-27											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	41.84	34.86	-0.211	-0.198	0.011	4.01	0	1	0.10	67.85	31.05
3	20.02	16.68	-0.189	-0.157	0.013	4.01	0	1	0.10	67.88	30.94
4	15.00	12.50	-0.210	-0.043	0.013	4.01	0	1	0.10	67.87	30.94
5	10.02	8.35	-0.365	-0.111	0.016	4.02	0	1	0.10	67.97	31.17
6	6.07	5.06	-0.689	-0.900	0.011	4.02	0	1	0.10	68.01	31.40
7	4.00	3.33	-0.963	-0.856	0.025	4.02	0	1	0.10	68.13	31.28
8	3.08	2.56	-1.252	-0.189	0.048	4.03	0	1	0.10	68.25	31.40

**TABLE A-6 - Power on Force Data**  
**Configuration I - Rear Jet Alone - NPR=6**  
**Fixed Ground Board**

Run# 609                      Pressure data on Table and Figure B-28

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	3.05	2.54	-1.092	0.73	0.049	6.03	0	1	0.10	111.97	46.81
3	4.05	3.38	-0.842	-0.45	0.024	6.01	0	1	0.10	111.62	46.81
4	6.04	5.03	-0.673	-0.86	0.010	6.00	0	1	0.10	111.24	46.70
5	10.07	8.39	-0.334	0.04	0.013	6.00	0	1	0.10	111.23	46.36
6	15.03	12.53	-0.197	0.15	0.016	6.00	0	1	0.10	111.30	46.70
7	19.97	16.64	-0.167	0.07	0.013	6.00	0	1	0.10	111.38	46.36
8	41.07	34.23	-0.191	-0.01	0.012	6.01	0	1	0.10	111.48	46.81

Run# 610                      Pressure data on Table and Figure B-29

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	41.25	34.38	-0.133	-0.10	0.002	5.99	0	1	0.08	111.96	30.26
3	20.03	16.69	-0.164	-0.08	0.006	5.98	0	1	0.08	111.67	30.49
4	15.08	12.57	-0.211	-0.13	0.005	6.01	0	1	0.08	112.37	30.38
5	10.08	8.40	-0.408	-0.82	0.003	6.02	0	1	0.08	112.66	30.38
6	5.98	4.99	-0.644	-1.48	0.001	6.03	0	1	0.08	112.80	30.49
7	4.02	3.35	-0.865	-1.00	0.022	6.03	0	1	0.08	112.87	30.60
8	3.05	2.54	-1.242	0.43	0.037	6.03	0	1	0.08	112.91	30.26

Run# 611                      Pressure data on Table and Figure B-30

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.98	2.49	-1.395	0.16	0.024	6.00	0	1	0.06	112.83	16.89
2	4.03	3.36	-0.844	-1.39	0.008	6.00	0	1	0.06	112.95	16.77
3	6.01	5.01	-0.512	-1.49	-0.005	6.01	0	1	0.06	113.05	16.77
4	10.03	8.36	-0.353	-1.21	-0.007	6.01	0	1	0.06	113.14	16.77
5	15.00	12.50	-0.217	-0.59	-0.002	6.01	0	1	0.06	113.15	16.66
6	20.05	16.71	-0.143	-0.31	0.002	6.02	0	1	0.06	113.27	16.77
7	41.13	34.27	-0.080	-0.18	0.001	6.02	0	1	0.06	113.30	16.66

Run# 612                      Pressure data on Table and Figure B-31

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	41.13	34.28	-0.054	-0.15	-0.000	6.00	0	1	0.04	113.31	7.59
2	20.03	16.69	-0.133	-0.49	-0.001	6.00	0	1	0.04	113.44	7.71
3	14.99	12.49	-0.177	-0.76	-0.006	6.01	0	1	0.04	113.48	7.71
4	10.07	8.39	-0.225	-0.92	-0.004	6.01	0	1	0.04	113.50	7.59
5	6.02	5.02	-0.476	-1.21	-0.007	6.01	0	1	0.04	113.56	7.71
6	4.03	3.36	-0.841	-1.60	-0.003	6.02	0	1	0.04	113.70	7.82
7	3.06	2.55	-1.402	-0.41	0.013	6.01	0	1	0.04	113.67	7.59

**TABLE A-6 - Concluded**

Run# 613		Pressure data on Table and Figure B-32									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.06	2.55	-1.405	-0.55	0.003	6.01	0	1	0.02	113.96	1.93
2	4.03	3.36	-0.731	-0.87	0.000	6.02	0	1	0.02	114.08	1.93
4	6.04	5.03	-0.342	-0.78	-0.001	5.98	0	1	0.02	113.12	1.93
5	10.09	8.41	-0.150	-0.45	-0.002	5.98	0	1	0.02	113.28	1.93

Run# 614		Pressure data on Table and Figure B-33									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	2.97	2.47	-1.354	-0.26	0.004	6.01	0	1	0	114.00	0
3	4.03	3.36	-0.717	-0.33	0.002	6.00	0	1	0	113.81	0
4	5.98	4.98	-0.303	-0.22	0.001	5.99	0	1	0	113.57	0
5	10.01	8.34	-0.116	-0.13	-0.003	5.99	0	1	0	113.51	0
6	14.99	12.50	-0.050	-0.06	-0.003	5.99	0	1	0	113.40	0
7	20.01	16.68	-0.030	-0.04	-0.003	5.99	0	1	0	113.43	0
8	40.59	33.83	-0.012	0.00	-0.002	5.99	0	1	0	113.40	0

**TABLE A-7 - Power on Force Data**  
**Configuration II - Both Jets - NPR=2**  
**Fixed Ground Board**

Run# 540 Pressure data on Tabale and Figure B-34											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	44.63	26.25	-0.013	0.03	0.004	2.00	0.512	0.488	0	50.74	0
3	20.08	11.81	-0.033	0.03	-0.005	2.00	0.512	0.488	0	50.77	0
4	15.02	8.83	-0.066	0.02	-0.006	2.00	0.512	0.488	0	50.89	0
5	10.04	5.90	-0.136	0.12	-0.004	2.00	0.512	0.488	0	51.04	0
6	6.02	3.54	-0.329	0.28	-0.002	2.01	0.512	0.488	0	51.15	0
7	4.10	2.41	-0.554	0.34	-0.006	2.01	0.512	0.488	0	51.15	0
8	3.03	1.78	-0.783	0.19	-0.005	2.01	0.512	0.488	0	51.36	0
9	2.09	1.23	-1.263	0.29	-0.008	2.01	0.512	0.488	0	51.35	0
Run# 543 No pressure data											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	42.06	24.74	-0.037	-0.01	-0.000	2.01	0.508	0.492	0.02	52.15	0.57
3	30.02	17.66	-0.050	-0.03	0.000	2.02	0.509	0.491	0.02	52.27	0.68
4	20.03	11.78	-0.064	-0.02	0.003	2.02	0.508	0.492	0.02	52.42	0.79
5	15.02	8.84	-0.083	-0.06	0.002	2.02	0.508	0.492	0.02	52.48	0.79
6	10.01	5.89	-0.152	-0.02	0.003	2.02	0.508	0.492	0.02	52.53	0.57
7	5.99	3.52	-0.349	0.32	0.010	2.03	0.508	0.492	0.02	52.64	0.57
8	4.01	2.36	-0.626	0.39	0.003	2.03	0.508	0.492	0.02	52.64	0.68
9	3.01	1.77	-0.820	0.19	0.005	2.03	0.508	0.492	0.02	52.76	0.57
10	2.02	1.19	-1.494	0.02	0.009	2.03	0.508	0.492	0.02	52.76	0.68
Run# 544 No pressure data											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	1.98	1.16	-1.441	-0.11	0.004	2.05	0.508	0.492	0.04	53.80	2.27
3	3.03	1.78	-0.811	0.16	0.001	2.05	0.509	0.491	0.04	53.78	2.49
4	4.03	2.37	-0.594	0.28	-0.002	2.06	0.509	0.491	0.04	53.89	2.49
5	6.04	3.55	-0.329	0.13	0.005	2.06	0.508	0.492	0.04	53.98	2.38
6	9.99	5.88	-0.171	-0.23	-0.004	2.06	0.508	0.492	0.04	54.08	2.38
7	15.00	8.82	-0.125	-0.17	-0.003	2.06	0.508	0.492	0.04	54.16	2.61
8	20.04	11.79	-0.099	-0.14	-0.005	2.06	0.508	0.492	0.04	54.20	2.49
9	42.18	24.81	-0.063	-0.08	-0.002	2.07	0.508	0.492	0.04	54.35	2.38
Run# 545 No pressure data											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	42.18	24.81	-0.097	-0.05	-0.004	2.07	0.508	0.492	0.06	54.49	5.55
2	20.05	11.80	-0.140	-0.11	-0.001	2.08	0.508	0.492	0.06	54.61	5.67
3	15.02	8.84	-0.176	-0.18	-0.002	2.08	0.508	0.492	0.06	54.69	5.67
4	10.03	5.90	-0.221	-0.32	-0.005	2.08	0.508	0.492	0.06	54.78	5.78
5	6.09	3.58	-0.347	-0.06	0.007	2.08	0.508	0.492	0.06	54.89	5.78
6	4.03	2.37	-0.631	0.08	0.003	2.08	0.508	0.492	0.06	54.88	5.67
7	3.03	1.78	-0.875	-0.08	0.011	2.09	0.508	0.492	0.06	55.07	5.89
8	2.08	1.23	-1.343	-0.37	0.006	2.09	0.508	0.492	0.06	55.08	5.55

**TABLE A-7 -- Concluded**

Run# 546

Pressure data on Tabale and Figure B-35

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	42.67	25.10	-0.171	-0.06	0.001	2.00	0.509	0.491	0.08	51.42	10.09
3	19.97	11.75	-0.173	-0.04	0.005	2.00	0.509	0.491	0.08	51.34	10.20
4	15.07	8.87	-0.201	-0.05	0.005	2.00	0.509	0.491	0.08	51.32	10.09
5	9.95	5.86	-0.268	-0.20	0.001	2.00	0.509	0.491	0.08	51.42	10.43
6	6.02	3.54	-0.381	-0.31	0.010	2.01	0.509	0.491	0.08	51.52	10.31
7	4.00	2.35	-0.689	-0.04	0.007	2.01	0.509	0.491	0.08	51.47	10.43
8	2.99	1.76	-0.908	-0.13	0.009	2.01	0.508	0.492	0.08	51.58	10.20
9	2.05	1.21	-1.371	-0.44	0.017	2.01	0.508	0.492	0.08	51.67	10.20

Run# 547

Pressure data on Tabale and Figure B-36

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.05	1.20	-1.399	-0.40	0.028	2.02	0.508	0.492	0.10	51.97	15.64
2	3.03	1.78	-0.943	-0.16	0.015	2.02	0.508	0.492	0.10	52.03	15.75
3	4.09	2.40	-0.670	-0.17	0.015	2.03	0.508	0.492	0.10	52.20	15.75
4	5.96	3.50	-0.421	-0.40	0.014	2.03	0.509	0.491	0.10	52.33	15.75
5	10.08	5.93	-0.306	-0.12	0.022	2.03	0.508	0.492	0.10	52.41	15.75
6	15.08	8.87	-0.243	-0.06	0.019	2.03	0.508	0.492	0.10	52.43	15.53
7	20.12	11.84	-0.204	-0.09	0.017	2.04	0.508	0.492	0.10	52.59	15.64
8	42.38	24.93	-0.229	-0.14	0.013	2.04	0.508	0.492	0.10	52.73	15.75

Run# 548

Pressure data on Tabale and Figure B-37

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.33	24.90	-0.398	-0.12	0.023	1.88	0.510	0.490	0.14	45.64	30.38
2	19.94	11.73	-0.393	-0.11	0.025	1.88	0.509	0.491	0.15	45.67	30.60
3	15.04	8.85	-0.315	-0.06	0.027	1.88	0.509	0.491	0.14	45.75	30.38
4	9.97	5.87	-0.347	0.11	0.037	1.88	0.509	0.491	0.14	45.80	30.26
5	6.00	3.53	-0.469	0.00	0.032	1.88	0.509	0.491	0.14	45.86	30.38
6	4.03	2.37	-0.644	-0.27	0.018	1.88	0.509	0.491	0.14	45.90	30.26
7	2.99	1.76	-0.955	-0.22	0.030	1.89	0.509	0.491	0.14	45.98	30.26
8	2.02	1.19	-1.526	0.10	0.055	1.89	0.509	0.491	0.14	46.08	30.49

**TABLE A-8 -- Power on Force Data**  
**Configuration II -- Both Jets -- NPR=4**  
**Fixed Ground Board**

Run# 541 <span style="float:right">Presssure data on Table and Figure B-38</span>											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.98	1.16	-1.214	0.318	0.005	4.00	0.507	0.493	0	137.26	0
2	3.01	1.77	-0.727	0.380	-0.000	4.01	0.507	0.493	0	137.54	0
3	4.05	2.38	-0.515	0.462	-0.001	4.01	0.508	0.492	0	137.63	0
4	6.04	3.55	-0.293	0.262	-0.001	4.02	0.507	0.493	0	137.91	0
5	10.04	5.91	-0.125	0.118	-0.003	4.02	0.507	0.493	0	138.11	0
6	15.03	8.84	-0.056	0.023	-0.004	4.02	0.507	0.493	0	138.24	0
7	20.05	11.79	-0.040	0.042	-0.003	4.03	0.507	0.493	0	138.49	0
8	42.22	24.83	-0.011	0.025	-0.005	4.03	0.507	0.493	0	138.65	0

Run# 549 <span style="float:right">Presssure data on Table and Figure B-39</span>											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.04	1.79	-0.795	0.296	0.014	4.00	0.504	0.496	0.02	138.74	1.25
2	4.05	2.38	-0.565	0.564	0.025	4.00	0.504	0.496	0.02	138.98	1.13
3	6.01	3.54	-0.320	0.328	0.015	4.01	0.504	0.496	0.02	139.09	1.25
4	9.99	5.88	-0.141	0.036	0.011	4.01	0.504	0.496	0.02	139.29	1.25
5	15.06	8.86	-0.078	-0.045	0.008	4.02	0.504	0.496	0.02	139.54	1.25
6	19.96	11.74	-0.056	-0.000	0.007	4.02	0.504	0.496	0.02	139.59	1.25
7	42.67	25.10	-0.042	0.002	0.008	4.03	0.504	0.496	0.02	139.87	1.36

Run# 550 <span style="float:right">Presssure data on Table and Figure B-40</span>											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.68	25.10	-0.065	-0.041	0.006	4.04	0.504	0.496	0.04	140.27	4.87
2	19.99	11.76	-0.103	-0.113	0.006	4.04	0.504	0.496	0.04	140.51	5.21
3	15.05	8.85	-0.114	-0.158	0.004	4.05	0.504	0.496	0.04	140.60	5.10
4	10.09	5.94	-0.153	-0.160	0.006	4.05	0.504	0.496	0.04	140.93	4.99
5	6.02	3.54	-0.310	0.090	0.008	4.06	0.504	0.496	0.04	141.08	4.87
6	4.03	2.37	-0.615	0.578	0.010	4.06	0.504	0.496	0.04	141.30	4.99
7	3.06	1.80	-0.792	0.244	0.009	4.07	0.504	0.496	0.04	141.45	4.99

Run# 551 <span style="float:right">Presssure data on Table and Figure B-41</span>											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.04	1.79	-0.822	0.155	0.011	4.00	0.504	0.496	0.06	138.24	11.33
2	4.03	2.37	-0.582	0.444	0.007	4.01	0.504	0.496	0.06	138.35	11.33
3	6.00	3.53	-0.317	-0.037	0.003	4.01	0.504	0.496	0.06	138.42	11.22
4	10.04	5.90	-0.183	-0.291	-0.002	4.01	0.504	0.496	0.06	138.35	11.33
5	15.04	8.85	-0.146	-0.190	0.002	4.01	0.504	0.496	0.06	138.50	11.33
6	20.02	11.78	-0.119	-0.118	0.003	4.01	0.504	0.496	0.06	138.57	11.22

**TABLE A-8 - Concluded**

Run# 552                      Presssure data on Table and Figure B-42

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	40.71	23.95	-0.120	-0.117	0.002	4.03	0.504	0.496	0.08	138.79	20.06
2	20.08	11.81	-0.141	-0.106	0.005	4.03	0.504	0.496	0.08	138.86	20.29
3	14.97	8.81	-0.175	-0.158	0.003	4.03	0.504	0.496	0.08	138.88	19.95
4	9.99	5.88	-0.225	-0.315	0.000	4.03	0.504	0.496	0.08	138.85	20.17
5	6.06	3.57	-0.333	-0.193	-0.003	4.03	0.504	0.496	0.08	138.85	20.29
6	4.09	2.41	-0.606	0.258	0.003	4.03	0.504	0.496	0.08	138.95	20.40
7	3.05	1.79	-0.841	0.151	0.007	4.04	0.504	0.496	0.08	139.05	20.40

Run# 553                      Presssure data on Table and Figure B-43

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.03	1.78	-0.874	0.104	0.006	3.99	0.504	0.496	0.10	136.24	29.47
2	3.99	2.35	-0.624	0.166	0.001	3.99	0.504	0.496	0.10	136.29	30.26
3	6.01	3.54	-0.340	-0.343	-0.002	3.99	0.504	0.496	0.10	136.33	30.38
4	10.01	5.89	-0.255	-0.198	0.007	3.99	0.504	0.496	0.10	136.28	30.15
5	14.96	8.80	-0.177	-0.052	0.008	3.99	0.504	0.496	0.10	136.37	30.26
6	19.98	11.75	-0.150	-0.058	0.007	3.99	0.504	0.496	0.10	136.45	30.26
7	40.69	23.93	-0.164	-0.121	0.003	3.99	0.504	0.496	0.10	136.48	30.15

**TABLE A-9 - Power on Force Data  
Configuration II - Both Jets - NPR=6  
Fixed Ground Board**

Run# 542                      Presssure data on Table and Figure B-44

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.48	24.40	-0.015	0.008	-0.002	6.00	0.507	0.493	0	227.81	0
2	20.03	11.78	-0.036	0.021	-0.001	6.01	0.507	0.493	0	228.39	0
3	15.03	8.84	-0.053	-0.005	-0.003	6.03	0.507	0.493	0	228.96	0
4	10.08	5.93	-0.119	0.088	-0.003	6.03	0.507	0.493	0	229.20	0
5	6.04	3.55	-0.289	0.303	-0.001	6.04	0.506	0.494	0	229.69	0
6	4.01	2.36	-0.514	0.389	-0.001	6.04	0.507	0.493	0	229.79	0
7	3.05	1.80	-0.696	0.232	0.000	6.05	0.507	0.493	0	230.04	0



**TABLE A-10 -- Power on Force Data**  
**Configuration II -- Front Jet -- NPR=2**  
**Fixed Ground Board**

Run# 588 Pressure data on Table and Figure B-45											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
3	42.00	35.00	-0.026	-0.033	-0.010	1.99	1	0	0	25.18	0
4	19.98	16.65	-0.036	0.157	-0.004	1.99	1	0	0	25.17	0
5	15.05	12.54	-0.070	0.304	-0.007	1.99	1	0	0	25.23	0
6	10.02	8.35	-0.131	0.645	-0.008	1.99	1	0	0	25.29	0
7	6.03	5.03	-0.365	1.771	-0.004	1.99	1	0	0	25.30	0
8	4.03	3.36	-0.766	2.738	0.004	2.00	1	0	0	25.33	0
9	3.06	2.55	-1.237	3.158	0.008	2.00	1	0	0	25.36	0
10	2.01	1.68	-1.973	1.854	-0.002	2.00	1	0	0	25.40	0

Run# 589 Pressure data on Table and Figure B-46											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.02	1.68	-1.983	1.787	-0.001	2.00	1	0	0.02	25.45	0.57
2	3.07	2.56	-1.227	2.947	-0.006	2.00	1	0	0.02	25.48	0.68
3	4.00	3.33	-0.807	2.488	-0.007	2.00	1	0	0.02	25.51	0.68
4	6.01	5.01	-0.385	1.257	-0.014	2.01	1	0	0.02	25.55	0.68
5	10.06	8.38	-0.213	0.640	-0.025	2.01	1	0	0.02	25.59	0.68
6	15.07	12.56	-0.102	0.182	-0.023	2.01	1	0	0.02	25.61	0.57
7	20.00	16.66	-0.091	0.089	-0.019	2.01	1	0	0.02	25.62	0.68
8	42.50	35.41	-0.074	-0.046	-0.025	2.01	1	0	0.02	25.63	0.57

Run# 590 Pressure data on Table and Figure B-47											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	41.99	34.99	-0.109	-0.043	-0.030	2.01	1	0	0.04	25.70	2.61
2	20.10	16.75	-0.169	0.138	-0.024	2.01	1	0	0.04	25.64	2.61
3	15.10	12.59	-0.227	0.223	-0.025	2.01	1	0	0.04	25.70	2.61
4	10.07	8.39	-0.258	0.631	-0.025	2.02	1	0	0.04	25.75	2.72
5	6.08	5.07	-0.567	1.781	-0.012	2.01	1	0	0.04	25.72	2.49
6	4.03	3.36	-0.924	2.368	-0.007	2.02	1	0	0.04	25.75	2.72
7	3.09	2.57	-1.352	2.801	-0.002	2.02	1	0	0.04	25.76	2.49
8	3.09	2.57	-1.364	2.766	-0.005	2.02	1	0	0.04	25.79	2.61
9	2.07	1.72	-2.080	1.878	-0.004	2.02	1	0	0.04	25.82	2.61

Run# 591 Pressure data on Table and Figure B-48											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.07	1.72	-2.084	2.060	-0.025	2.02	1	0	0.06	25.83	5.78
2	3.03	2.52	-1.382	2.378	-0.019	2.03	1	0	0.06	25.91	5.67
3	4.01	3.34	-1.048	2.242	-0.027	2.03	1	0	0.06	25.94	5.78
4	6.02	5.01	-0.590	1.216	-0.032	2.03	1	0	0.06	25.91	5.78
5	10.07	8.39	-0.403	0.369	-0.050	2.03	1	0	0.06	25.96	5.78
6	15.07	12.56	-0.290	0.287	-0.054	2.03	1	0	0.06	25.99	5.67
7	20.01	16.68	-0.213	0.170	-0.055	2.03	1	0	0.06	25.96	5.67
8	42.36	35.30	-0.161	0.050	-0.052	2.03	1	0	0.06	25.99	5.67

**TABLE A-10 - Concluded**

Run# 592		Pressure data on Table and Figure B-49									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.36	35.30	-0.241	0.072	-0.084	2.03	1	0	0.08	26.04	9.97
2	20.06	16.71	-0.245	0.113	-0.086	2.03	1	0	0.08	26.02	10.09
3	15.07	12.56	-0.306	0.346	-0.079	2.03	1	0	0.08	26.02	9.97
4	10.06	8.39	-0.454	0.448	-0.076	2.03	1	0	0.08	26.04	10.09
5	6.09	5.08	-0.671	0.472	-0.057	2.04	1	0	0.08	26.08	10.20
6	4.01	3.34	-1.110	1.851	-0.053	2.04	1	0	0.08	26.10	10.09
7	3.02	2.51	-1.466	2.256	-0.044	2.04	1	0	0.08	26.11	10.09
8	2.04	1.70	-2.138	1.964	-0.059	2.04	1	0	0.08	26.10	10.20

Run# 593		Pressure data on Table and Figure B-50									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.05	1.71	-2.123	2.040	-0.096	2.04	1	0	0.10	26.17	15.64
2	3.06	2.55	-1.531	2.265	-0.090	2.04	1	0	0.10	26.17	15.87
3	4.00	3.33	-1.063	1.030	-0.084	2.04	1	0	0.10	26.15	15.64
4	6.10	5.09	-0.751	0.413	-0.097	2.04	1	0	0.10	26.15	15.41
5	10.03	8.36	-0.507	0.344	-0.124	2.04	1	0	0.10	26.18	15.53
6	15.08	12.57	-0.347	0.023	-0.119	2.04	1	0	0.10	26.17	15.53
7	20.00	16.67	-0.323	-0.129	-0.129	2.04	1	0	0.10	26.18	15.64
8	42.34	35.29	-0.345	-0.036	-0.117	2.05	1	0	0.10	26.23	15.53

Run# 594		Pressure data on Table and Figure B-51									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.33	35.27	-0.573	-0.146	-0.254	2.07	1	0	0.15	26.35	35.36
2	20.08	16.73	-0.524	-0.341	-0.265	2.07	1	0	0.15	26.36	35.59
3	15.11	12.59	-0.570	0.066	-0.274	2.07	1	0	0.15	26.35	35.59
4	10.06	8.38	-0.625	0.576	-0.271	2.07	1	0	0.15	26.38	35.48
5	6.07	5.06	-0.806	0.806	-0.257	2.07	1	0	0.15	26.35	35.70
6	4.10	3.41	-1.098	0.516	-0.232	2.07	1	0	0.15	26.35	35.36
7	3.10	2.59	-1.524	1.545	-0.240	2.07	1	0	0.15	26.39	35.48
8	2.00	1.67	-2.228	3.248	-0.245	2.07	1	0	0.15	26.39	35.82

Run# 595		Pressure data on Table and Figure B-52									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.07	1.72	-2.027	3.856	-0.388	2.09	1	0	0.20	26.59	62.34
2	2.98	2.49	-1.543	1.432	-0.447	2.09	1	0	0.20	26.60	62.68
3	4.08	3.40	-1.025	0.610	-0.412	2.09	1	0	0.20	26.56	62.34
4	6.06	5.05	-0.837	0.450	-0.439	2.09	1	0	0.20	26.58	62.34
5	10.03	8.36	-0.640	-1.032	-0.428	2.09	1	0	0.20	26.57	61.88
6	15.04	12.53	-0.692	-0.887	-0.420	2.09	1	0	0.20	26.57	61.88
7	20.05	16.71	-0.751	-0.822	-0.428	2.10	1	0	0.20	26.62	62.22
8	42.35	35.29	-0.739	-0.664	-0.410	2.09	1	0	0.20	26.60	62.11

**TABLE A-11 -- Power on Force Data  
Configuration III -- Front Pair of Jets -- NPR=2  
Fixed Ground Board**

Run# 572 Pressure data on Table and Figure B-53

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
3	42.27	35.22	-0.004	0.070	-0.005	2.02	1	0	0	25.92	0
4	19.96	16.63	-0.035	0.246	-0.001	2.03	1	0	0	25.96	0
5	15.00	12.50	-0.034	0.271	-0.006	2.03	1	0	0	25.96	0
6	10.03	8.36	-0.087	0.496	-0.009	2.03	1	0	0	26.01	0
7	5.97	4.98	-0.266	0.937	-0.012	2.03	1	0	0	26.07	0
8	4.03	3.36	-0.373	0.946	-0.017	2.03	1	0	0	26.12	0
9	3.06	2.55	-0.452	0.821	-0.017	2.04	1	0	0	26.17	0
10	2.05	1.71	-0.740	0.782	-0.023	2.04	1	0	0	26.18	0

Run# 573 Pressure data on Table and Figure B-54

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.04	1.70	-0.782	0.801	-0.028	2.03	1	0	0.02	26.15	0.68
2	3.03	2.52	-0.502	0.823	-0.018	2.03	1	0	0.02	26.23	0.68
3	3.98	3.32	-0.421	0.975	-0.008	2.03	1	0	0.02	26.27	0.68
4	6.04	5.03	-0.311	0.979	0.004	2.04	1	0	0.02	26.33	0.68
5	10.00	8.33	-0.157	0.579	-0.003	2.04	1	0	0.02	26.33	0.68
6	15.08	12.56	-0.112	0.421	0.011	2.04	1	0	0.02	26.36	0.57
7	19.99	16.65	-0.105	0.336	0.011	2.04	1	0	0.02	26.39	0.57
8	42.26	35.22	-0.103	0.284	0.000	2.04	1	0	0.02	26.42	0.68

Run# 574 Pressure data on Table and Figure B-55

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.25	35.20	-0.155	0.379	-0.002	2.05	1	0	0.04	26.51	2.61
2	20.10	16.75	-0.188	0.421	-0.010	2.05	1	0	0.04	26.52	2.61
3	14.98	12.48	-0.213	0.573	-0.007	2.05	1	0	0.04	26.55	2.72
4	19.93	16.61	-0.179	0.464	-0.002	2.05	1	0	0.04	26.61	2.61
5	42.07	35.06	-0.132	0.391	-0.001	2.05	1	0	0.04	26.62	2.72

Run# 575 Pressure data on Table and Figure B-56

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.07	35.06	-0.225	0.775	-0.011	2.05	1	0	0.06	26.67	5.55
2	20.01	16.67	-0.213	0.729	-0.010	2.05	1	0	0.06	26.68	5.67
3	14.99	12.49	-0.262	0.772	-0.014	2.06	1	0	0.06	26.70	5.55
4	10.07	8.39	-0.363	0.740	-0.016	2.06	1	0	0.06	26.73	5.67
6	3.93	3.28	-0.542	1.143	-0.020	2.06	1	0	0.06	26.75	5.67
7	2.04	1.70	-0.895	1.075	-0.026	2.06	1	0	0.06	26.78	5.67

**TABLE A-11 - Concluded**

Run# 576 Pressure data on Table and Figure B-57											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.04	1.70	-0.911	1.268	-0.019	2.07	1	0	0.08	26.85	10.09
2	3.00	2.50	-0.667	1.341	-0.015	2.07	1	0	0.08	26.87	10.20
3	3.96	3.30	-0.539	1.233	-0.008	2.07	1	0	0.08	26.90	10.09
4	6.04	5.03	-0.476	0.673	-0.021	2.07	1	0	0.08	26.90	10.09
5	10.02	8.35	-0.441	1.118	-0.000	2.07	1	0	0.08	26.95	10.09
6	10.03	8.36	-0.422	1.070	-0.003	2.07	1	0	0.08	26.96	10.09
9	42.26	35.22	-0.348	1.201	0.009	2.07	1	0	0.08	27.01	10.09

Run# 577 Pressure data on Table and Figure B-58											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.26	35.22	-0.433	1.406	-0.002	2.02	1	0	0.10	25.93	15.75
2	20.02	16.68	-0.384	1.195	-0.006	2.02	1	0	0.10	25.92	15.64
3	14.99	12.49	-0.370	1.199	0.001	2.03	1	0	0.10	25.97	15.53
4	9.97	8.31	-0.394	1.491	0.002	2.02	1	0	0.10	25.93	15.64
5	6.10	5.08	-0.513	0.865	-0.030	2.03	1	0	0.10	25.94	15.53
6	3.99	3.33	-0.479	1.591	-0.002	2.03	1	0	0.10	25.96	15.64
7	2.98	2.48	-0.599	1.921	-0.008	2.03	1	0	0.10	25.98	15.75
8	2.03	1.69	-0.850	1.766	-0.020	2.03	1	0	0.10	25.96	15.87

Run# 578 Pressure data on Table and Figure B-59											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.02	1.68	-0.949	3.524	-0.001	2.05	1	0	0.15	26.13	35.14
2	3.09	2.57	-0.607	2.911	-0.005	2.05	1	0	0.15	26.15	35.25
3	4.09	3.41	-0.597	1.936	-0.000	2.05	1	0	0.15	26.16	35.14
4	6.04	5.03	-0.620	3.031	0.022	2.05	1	0	0.15	26.17	35.14
5	10.04	8.37	-0.497	2.129	0.021	2.05	1	0	0.15	26.17	35.14
6	15.16	12.64	-0.570	2.244	0.012	2.05	1	0	0.15	26.16	34.68
7	19.98	16.65	-0.591	2.328	0.009	2.05	1	0	0.15	26.15	35.25
8	42.30	35.25	-0.590	2.434	0.005	2.05	1	0	0.15	26.18	35.25

Run# 579 Pressure data on Table and Figure B-60											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.29	35.24	-0.756	2.981	-0.011	2.01	1	0	0.20	25.11	62.22
2	20.07	16.73	-0.840	3.306	-0.018	2.01	1	0	0.20	25.12	62.34
3	14.98	12.48	-0.678	2.719	-0.015	2.01	1	0	0.20	25.12	62.68
4	9.95	8.29	-0.782	2.812	-0.001	2.01	1	0	0.20	25.09	62.11
5	5.96	4.97	-0.787	3.682	0.012	2.01	1	0	0.20	25.11	62.56
6	4.05	3.38	-0.845	3.677	0.010	2.01	1	0	0.20	25.15	62.22
7	3.01	2.51	-0.754	4.608	0.002	2.01	1	0	0.20	25.14	62.22
8	1.98	1.65	-1.147	6.496	0.000	2.01	1	0	0.20	25.13	62.22

**TABLE A-12 — Power on Force Data**  
**Configuration III — All Jets — NPR=2**  
**Fixed Ground Board**

Run# 580 Pressure data on Table and Figure B-61

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	41.76	24.56	-0.004	0.061	-0.001	2.02	0.520	0.480	0	51.53	0
3	20.08	11.81	-0.027	0.085	0.001	2.01	0.520	0.480	0	51.40	0
4	15.05	8.85	-0.053	0.002	-0.005	2.01	0.520	0.480	0	51.25	0
5	10.10	5.94	-0.082	0.217	-0.002	2.01	0.520	0.480	0	51.43	0
6	6.03	3.55	-0.197	0.319	-0.002	2.01	0.521	0.479	0	51.41	0
7	4.02	2.37	-0.412	0.569	0.006	2.01	0.521	0.479	0	51.38	0
8	3.08	1.81	-0.636	1.066	0.012	2.01	0.521	0.479	0	51.39	0
9	2.04	1.20	-1.176	1.817	0.014	2.01	0.522	0.478	0	51.38	0

Run# 581 Pressure data on Table and Figure B-62

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	2.01	1.18	-1.154	1.670	0.018	2.05	0.517	0.483	0.02	53.07	0.57
3	3.01	1.77	-0.624	0.825	0.010	1.95	0.521	0.479	0.02	48.81	0.57
4	4.01	2.36	-0.458	0.499	0.005	1.95	0.521	0.479	0.02	48.85	0.57
5	6.03	3.55	-0.282	0.278	0.003	1.95	0.521	0.479	0.02	48.93	0.45
6	10.01	5.89	-0.155	-0.045	-0.002	1.95	0.521	0.479	0.02	48.89	0.57
7	14.97	8.81	-0.096	-0.045	0.002	1.96	0.521	0.479	0.02	49.03	0.45
8	19.99	11.76	-0.071	-0.019	-0.001	1.96	0.521	0.479	0.02	49.01	0.45
9	42.06	24.74	-0.047	-0.023	0.000	1.96	0.520	0.480	0.02	49.03	0.45

Run# 582 Pressure data on Table and Figure B-63

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.05	24.74	-0.089	-0.091	-0.004	1.96	0.520	0.480	0.04	49.01	2.49
2	20.02	11.78	-0.114	-0.144	-0.003	1.96	0.521	0.479	0.04	49.07	2.61
3	15.02	8.83	-0.136	-0.203	-0.005	1.96	0.521	0.479	0.04	49.05	2.72
4	10.02	5.90	-0.186	-0.219	-0.001	1.96	0.520	0.480	0.04	49.05	2.49
5	6.04	3.55	-0.293	0.283	0.006	1.96	0.520	0.480	0.04	49.06	2.49
6	4.01	2.36	-0.490	0.487	0.008	1.96	0.520	0.480	0.04	49.02	2.49
7	3.07	1.80	-0.662	0.744	0.015	1.96	0.520	0.480	0.04	49.07	2.61
8	2.03	1.19	-1.141	1.526	0.021	1.96	0.520	0.480	0.04	49.11	2.49

Run# 583 Pressure data on Table and Figure B-64

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.03	1.19	-1.161	1.503	0.019	1.97	0.520	0.480	0.06	49.34	5.55
2	3.00	1.77	-0.656	0.600	0.016	1.97	0.519	0.481	0.06	49.55	5.67
3	4.01	2.36	-0.503	0.404	0.011	1.97	0.519	0.481	0.06	49.67	5.55
4	6.04	3.55	-0.301	0.154	-0.001	1.98	0.519	0.481	0.06	49.72	5.67
5	10.07	5.92	-0.210	-0.304	-0.003	1.98	0.519	0.481	0.06	49.83	5.55
6	15.07	8.87	-0.182	-0.228	0.002	1.98	0.519	0.481	0.06	49.90	5.67
7	20.05	11.80	-0.186	-0.237	-0.001	1.98	0.519	0.481	0.06	49.90	5.55
8	42.04	24.73	-0.162	-0.230	-0.005	1.98	0.519	0.481	0.06	49.98	5.67

**TABLE A-12 - Concluded**

Run# 584 Pressure data on Table and Figure B-65											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.02	24.71	-0.252	-0.336	-0.002	1.99	0.518	0.482	0.08	50.11	10.09
2	20.07	11.81	-0.250	-0.331	0.003	1.99	0.518	0.482	0.08	50.17	10.20
3	15.06	8.86	-0.254	-0.303	0.003	1.99	0.518	0.482	0.08	50.25	10.20
4	10.04	5.91	-0.276	-0.315	0.001	1.99	0.519	0.481	0.08	50.29	10.20
5	6.01	3.54	-0.317	0.024	0.002	1.99	0.518	0.482	0.08	50.31	10.31
6	4.05	2.38	-0.500	0.297	0.010	1.99	0.518	0.482	0.08	50.39	10.09
7	3.02	1.78	-0.639	0.586	0.019	1.99	0.518	0.482	0.08	50.35	10.20
8	2.05	1.21	-1.110	1.440	0.030	2.00	0.518	0.482	0.08	50.45	10.09

Run# 585 Pressure data on Table and Figure B-66											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	1.99	1.17	-1.158	1.608	0.034	1.94	0.526	0.474	0.10	47.97	15.64
3	3.01	1.77	-0.652	0.628	0.030	1.94	0.525	0.475	0.10	48.04	15.75
4	3.98	2.34	-0.526	0.422	0.014	1.94	0.525	0.475	0.10	48.14	15.64
5	6.01	3.53	-0.363	-0.135	0.004	1.95	0.525	0.475	0.10	48.27	15.64
6	10.10	5.94	-0.324	-0.136	0.017	1.95	0.525	0.475	0.10	48.43	15.87
7	15.09	8.87	-0.322	-0.349	0.008	1.95	0.524	0.476	0.10	48.50	15.98
8	20.03	11.78	-0.317	-0.423	0.003	1.95	0.525	0.475	0.10	48.54	15.53
9	42.25	24.86	-0.339	-0.422	0.003	1.96	0.524	0.476	0.10	48.69	15.75

Run# 586 Pressure data on Table and Figure B-67											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.23	24.84	-0.490	-0.254	0.015	1.98	0.524	0.476	0.15	49.11	35.25
2	20.01	11.77	-0.466	-0.265	0.013	1.98	0.523	0.477	0.15	49.14	35.48
3	15.02	8.83	-0.435	-0.259	0.016	1.98	0.523	0.477	0.15	49.25	35.25
4	10.01	5.89	-0.395	-0.116	0.025	1.98	0.523	0.477	0.15	49.27	35.14
5	5.97	3.51	-0.374	0.358	0.023	1.98	0.524	0.476	0.15	49.35	35.36
6	4.03	2.37	-0.451	0.920	0.026	1.98	0.523	0.477	0.15	49.39	35.48
7	2.98	1.75	-0.607	1.338	0.044	1.99	0.523	0.477	0.15	49.56	35.70
8	2.05	1.21	-0.977	1.931	0.069	1.99	0.523	0.477	0.15	49.54	35.48

Run# 587 Pressure data on Table and Figure B-68											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.14	1.26	-0.669	2.384	0.071	2.02	0.523	0.477	0.20	50.07	62.79
2	3.02	1.77	-0.516	1.946	0.037	2.02	0.523	0.477	0.20	50.05	62.22
3	3.99	2.35	-0.470	1.174	0.032	2.02	0.522	0.478	0.20	50.13	62.90

**TABLE A-13 - Power on Force Data**  
**Configuration IV - All Jets - NPR=2**  
**Fixed Ground Board**

Run# 559                      No pressure data

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
4	41.68	24.52	-0.036	0.044	0.009	1.99	0.494	0.506	0	50.28	0
5	20.06	11.80	-0.044	0.078	0.004	1.99	0.495	0.505	0	50.30	0
6	14.96	8.80	-0.071	0.076	0.006	1.99	0.494	0.506	0	50.41	0
7	10.00	5.88	-0.125	0.279	0.010	1.99	0.494	0.506	0	50.50	0
8	5.99	3.52	-0.232	0.406	0.014	1.99	0.494	0.506	0	50.57	0
9	4.02	2.36	-0.444	0.821	0.010	1.99	0.494	0.506	0	50.59	0
10	3.04	1.79	-0.706	1.281	0.012	2.00	0.494	0.506	0	50.75	0

Run# 560                      No pressure data

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.03	1.78	-0.707	1.227	0.014	1.99	0.494	0.506	0.02	50.69	0.68
2	4.03	2.37	-0.450	0.710	0.013	1.99	0.494	0.506	0.02	50.79	0.68
3	6.02	3.54	-0.247	0.390	0.012	1.99	0.494	0.506	0.02	50.92	0.68
4	10.07	5.92	-0.147	-0.019	0.002	1.99	0.494	0.506	0.02	50.84	0.68
5	14.98	8.81	-0.101	0.059	0.008	1.99	0.494	0.506	0.02	50.89	0.68
6	20.53	12.08	-0.066	0.034	0.002	1.99	0.494	0.506	0.02	50.78	0.68
7	41.67	24.51	-0.057	-0.001	0.004	1.99	0.494	0.506	0.02	50.86	0.68

Run# 561                      No pressure data

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.66	24.51	-0.099	-0.073	0.003	1.99	0.493	0.507	0.04	51.00	2.61
2	20.05	11.79	-0.123	-0.053	0.003	2.00	0.493	0.507	0.04	51.07	2.61
3	15.09	8.87	-0.132	-0.072	0.003	1.99	0.493	0.507	0.04	51.02	2.49
4	10.02	5.89	-0.175	-0.070	0.004	2.00	0.493	0.507	0.04	51.10	2.38
5	6.05	3.56	-0.282	0.401	0.007	1.99	0.494	0.506	0.04	51.04	2.49
6	4.04	2.38	-0.493	0.685	0.012	2.00	0.493	0.507	0.04	51.12	2.49
7	3.05	1.80	-0.681	1.093	0.014	2.00	0.493	0.507	0.04	51.18	2.61

Run# 562                      No pressure data

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.05	1.80	-0.691	1.024	0.012	2.00	0.493	0.507	0.06	51.27	5.89
2	4.02	2.36	-0.515	0.677	0.007	2.00	0.493	0.507	0.06	51.31	5.78
3	6.07	3.57	-0.297	0.338	0.005	2.00	0.493	0.507	0.06	51.29	5.78
4	10.00	5.88	-0.242	-0.131	0.005	2.00	0.493	0.507	0.06	51.34	5.78
5	14.98	8.81	-0.210	-0.097	0.001	2.00	0.493	0.507	0.06	51.30	5.67
6	20.06	11.80	-0.200	-0.130	0.002	2.00	0.493	0.507	0.06	51.30	5.55
7	41.66	24.50	-0.161	-0.094	0.002	2.00	0.493	0.507	0.06	51.34	5.67

**TABLE A-13 - Concluded**

**Run# 563**

No pressure data

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.64	24.49	-0.238	-0.131	0.002	2.01	0.493	0.507	0.08	51.47	9.97
2	20.00	11.77	-0.255	-0.096	0.002	2.01	0.493	0.507	0.08	51.43	9.97
3	15.06	8.86	-0.290	-0.106	0.005	2.01	0.493	0.507	0.08	51.44	10.09
4	10.05	5.91	-0.312	-0.013	0.005	2.01	0.493	0.507	0.08	51.45	10.20
5	5.97	3.51	-0.303	0.274	0.007	2.01	0.493	0.507	0.08	51.50	10.20
6	4.10	2.41	-0.513	0.682	0.003	2.01	0.493	0.507	0.08	51.41	10.20
7	3.03	1.78	-0.685	1.056	0.011	2.01	0.493	0.507	0.08	51.37	10.20

**Run# 564**

No pressure data

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.03	1.79	-0.690	1.110	0.013	2.02	0.493	0.507	0.10	51.56	15.53
2	4.00	2.35	-0.504	0.706	0.005	2.02	0.493	0.507	0.10	51.58	15.64
3	6.16	3.62	-0.342	0.058	-0.000	2.01	0.493	0.507	0.10	51.20	15.53
4	10.03	5.90	-0.391	0.131	0.011	2.01	0.493	0.507	0.10	51.23	15.64
5	15.03	8.84	-0.330	-0.048	0.010	2.01	0.493	0.507	0.10	51.20	15.53
6	20.06	11.80	-0.302	-0.111	0.004	2.01	0.493	0.507	0.10	51.21	15.53
7	41.61	24.48	-0.322	-0.107	0.007	2.01	0.493	0.507	0.10	51.27	15.53



**TABLE A-14 -- Power on Force Data**  
**Configuration IV -- All Jets -- NPR=2 Repeat**  
**Fixed Ground Board**

Run# 565 Pressure data on Table and Figure B-69

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	41.77	24.57	-0.015	0.026	-0.005	1.99	0.495	0.505	0	50.55	0
5	41.78	24.58	-0.012	0.054	-0.007	2.01	0.494	0.506	0	51.21	0
6	20.13	11.84	-0.005	0.071	-0.005	2.01	0.495	0.505	0	51.25	0
7	15.02	8.84	-0.022	0.061	-0.006	2.01	0.495	0.505	0	51.27	0
8	9.96	5.86	-0.114	0.255	-0.006	2.02	0.494	0.506	0	51.46	0
9	5.99	3.52	-0.214	0.415	-0.003	2.02	0.494	0.506	0	51.53	0
10	4.05	2.38	-0.452	0.836	0.001	2.02	0.494	0.506	0	51.63	0
11	4.05	2.38	-0.452	0.806	-0.002	2.02	0.494	0.506	0	51.69	0
12	2.98	1.75	-0.693	1.248	-0.003	2.02	0.494	0.506	0	51.68	0
13	2.03	1.19	-1.194	2.002	-0.009	2.02	0.494	0.506	0	51.74	0

Run# 566 Pressure data on Table and Figure B-70

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.35	1.39	-0.993	1.791	-0.001	2.01	0.494	0.506	0.02	51.61	0.68
2	2.99	1.76	-0.677	1.185	0.001	2.01	0.493	0.507	0.02	51.67	0.68
3	3.99	2.35	-0.441	0.700	-0.003	2.01	0.494	0.506	0.02	51.61	0.68
4	5.98	3.52	-0.224	0.377	-0.007	2.01	0.494	0.506	0.02	51.62	0.68
5	10.08	5.93	-0.134	-0.021	-0.011	2.01	0.493	0.507	0.02	51.65	0.68
6	15.08	8.87	-0.084	0.038	-0.010	2.01	0.493	0.507	0.02	51.61	0.68
7	19.97	11.74	-0.057	0.008	-0.005	2.01	0.493	0.507	0.02	51.70	0.57
8	41.53	24.43	-0.034	-0.018	-0.006	2.01	0.493	0.507	0.02	51.70	0.57

Run# 567 Pressure data on Table and Figure B-71

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	41.53	24.43	-0.079	-0.084	-0.013	2.02	0.493	0.507	0.04	51.92	2.49
2	20.11	11.83	-0.113	-0.076	-0.012	2.02	0.493	0.507	0.04	51.90	2.61
3	14.99	8.82	-0.118	-0.070	-0.010	2.02	0.493	0.507	0.04	52.01	2.61
4	9.96	5.86	-0.161	-0.082	-0.014	2.02	0.493	0.507	0.04	51.98	2.61
5	6.00	3.53	-0.245	0.396	-0.009	2.02	0.493	0.507	0.04	52.00	2.49
6	4.03	2.37	-0.455	0.674	-0.008	2.02	0.493	0.507	0.04	51.97	2.61
7	3.02	1.77	-0.712	1.157	0.000	2.02	0.493	0.507	0.04	52.09	2.49
8	2.05	1.21	-1.186	1.985	-0.005	2.02	0.493	0.507	0.04	52.07	2.61

Run# 568 Pressure data on Table and Figure B-72

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.04	1.20	-1.237	1.925	-0.008	2.03	0.493	0.507	0.06	52.19	5.67
2	3.09	1.82	-0.682	1.055	0.000	2.03	0.493	0.507	0.06	52.13	5.55
3	4.01	2.36	-0.478	0.675	-0.010	2.02	0.493	0.507	0.06	52.06	5.55
4	6.04	3.56	-0.280	0.321	-0.008	2.03	0.493	0.507	0.06	52.14	5.67
5	10.02	5.89	-0.215	-0.116	-0.015	2.02	0.493	0.507	0.06	52.12	5.67
6	15.00	8.83	-0.199	-0.120	-0.011	2.02	0.493	0.507	0.06	52.12	5.55
7	20.09	11.82	-0.173	-0.104	-0.011	2.02	0.493	0.507	0.06	51.96	5.55
8	41.83	24.61	-0.135	-0.079	-0.009	2.02	0.493	0.507	0.06	52.01	5.44

**TABLE A-14 - Concluded**

Run# 569

Pressure data on Table and Figure B-73

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.99	24.70	-0.214	-0.096	-0.012	2.03	0.493	0.507	0.08	52.07	10.09
2	19.92	11.72	-0.226	-0.068	-0.011	2.03	0.493	0.507	0.08	52.06	10.20
3	15.02	8.84	-0.254	-0.063	-0.011	2.02	0.493	0.507	0.08	51.97	10.09
4	10.00	5.88	-0.287	0.032	-0.007	2.02	0.494	0.506	0.08	51.96	10.20
5	6.08	3.58	-0.260	0.263	-0.008	2.02	0.494	0.506	0.08	51.80	10.20
6	3.99	2.35	-0.497	0.690	-0.006	2.02	0.494	0.506	0.08	51.87	10.20
7	3.06	1.80	-0.688	1.074	0.002	2.02	0.494	0.506	0.08	51.86	10.20
8	1.99	1.17	-1.222	2.018	-0.008	2.02	0.494	0.506	0.08	51.85	10.09

Run# 570

Pressure data on Table and Figure B-74

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.00	1.18	-1.220	2.170	-0.008	2.02	0.494	0.506	0.10	51.86	15.53
2	3.10	1.82	-0.641	1.104	-0.005	2.02	0.495	0.505	0.10	51.79	15.64
3	4.09	2.40	-0.446	0.730	-0.011	2.02	0.495	0.505	0.10	51.71	15.53
4	6.06	3.56	-0.293	0.180	-0.010	2.02	0.494	0.506	0.10	51.76	15.41
5	9.94	5.85	-0.353	0.164	-0.006	2.02	0.494	0.506	0.10	51.86	15.53
6	14.98	8.81	-0.320	-0.080	-0.009	2.03	0.493	0.507	0.10	51.91	15.53
7	20.03	11.78	-0.292	-0.147	-0.009	2.03	0.493	0.507	0.10	51.96	15.41
8	42.03	24.72	-0.284	-0.111	-0.010	2.03	0.493	0.507	0.10	51.91	15.53

Run# 571

Pressure data on Table and Figure B-75

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.01	24.71	-0.441	0.073	-0.007	2.04	0.493	0.507	0.15	52.13	35.25
2	20.09	11.82	-0.413	0.023	-0.008	2.04	0.493	0.507	0.15	52.16	35.25
3	15.02	8.83	-0.403	0.073	-0.002	2.04	0.493	0.507	0.15	52.14	35.25
4	10.08	5.93	-0.492	0.289	0.012	2.04	0.493	0.507	0.15	52.14	35.48
5	6.02	3.54	-0.441	0.772	0.014	2.04	0.493	0.507	0.15	52.19	35.48
6	4.00	2.35	-0.460	1.299	0.006	2.04	0.493	0.507	0.15	52.13	35.48
7	3.04	1.79	-0.743	1.890	0.013	2.04	0.493	0.507	0.15	52.12	35.82
8	1.98	1.16	-1.209	2.985	0.003	2.04	0.493	0.507	0.15	52.16	35.82

**TABLE A-15 - Power on Force Data  
Configuration V - Both Jets - NPR=2  
Fixed Ground Board**

Run# 596 Pressure data on Table and Figure B-76

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
3	41.75	24.56	-0.018	-0.021	0.001	2.01	0.507	0.493	0	51.05	0
4	20.00	11.77	-0.035	-0.050	0.001	2.00	0.506	0.494	0	51.04	0
5	15.06	8.86	-0.064	-0.136	0.001	2.01	0.507	0.493	0	51.08	0
6	10.03	5.90	-0.161	-0.307	0.002	2.01	0.506	0.494	0	51.08	0
7	6.04	3.55	-0.327	-0.514	0.003	2.01	0.506	0.494	0	51.11	0
8	4.06	2.39	-0.493	-0.384	-0.003	2.01	0.506	0.494	0	51.20	0
9	3.06	1.80	-0.711	-0.486	-0.013	2.01	0.506	0.494	0	51.31	0
10	2.05	1.21	-1.162	-0.375	-0.010	2.01	0.506	0.494	0	51.30	0

Run# 597 Pressure data on Table and Figure B-77

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.04	1.20	-1.158	-0.433	-0.015	2.02	0.506	0.494	0.02	51.85	0.57
2	2.99	1.76	-0.697	-0.574	-0.011	2.02	0.506	0.494	0.02	51.88	0.57
3	4.04	2.38	-0.523	-0.688	-0.006	2.02	0.506	0.494	0.02	51.90	0.68
4	6.04	3.55	-0.327	-0.748	0.000	2.02	0.506	0.494	0.02	51.95	0.68
5	10.01	5.89	-0.160	-0.549	-0.003	2.03	0.506	0.494	0.02	52.01	0.68
6	15.03	8.84	-0.075	-0.295	0.001	2.03	0.506	0.494	0.02	52.02	0.68
7	20.06	11.80	-0.052	-0.221	0.001	2.03	0.506	0.494	0.02	52.08	0.68
8	41.82	24.60	-0.033	-0.182	-0.003	2.03	0.506	0.494	0.02	52.14	0.57

Run# 598 Pressure data on Table and Figure B-78

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.83	24.60	-0.068	-0.274	-0.008	2.03	0.506	0.494	0.04	52.18	2.61
2	20.07	11.80	-0.124	-0.510	-0.010	2.03	0.506	0.494	0.04	52.32	2.61
3	15.05	8.85	-0.147	-0.604	-0.009	2.03	0.506	0.494	0.04	52.30	2.72
4	10.03	5.90	-0.188	-0.768	-0.009	2.04	0.506	0.494	0.04	52.35	2.61
5	6.00	3.53	-0.349	-1.061	-0.014	2.04	0.506	0.494	0.04	52.32	2.72
6	4.07	2.39	-0.584	-0.954	-0.023	2.04	0.506	0.494	0.04	52.35	2.72
7	3.07	1.81	-0.676	-0.636	-0.024	2.04	0.506	0.494	0.04	52.37	2.61
8	2.00	1.18	-1.101	-0.361	-0.023	2.04	0.506	0.494	0.04	52.33	2.72

Run# 599 Pressure data on Table and Figure B-79

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.00	1.18	-1.066	-0.247	-0.039	2.04	0.506	0.494	0.06	52.45	5.55
2	3.04	1.79	-0.673	-0.629	-0.038	2.04	0.506	0.494	0.06	52.49	5.55
3	4.03	2.37	-0.545	-0.949	-0.032	2.04	0.506	0.494	0.06	52.49	5.44
4	5.99	3.52	-0.370	-1.112	-0.026	2.04	0.506	0.494	0.06	52.46	5.55
5	10.03	5.90	-0.250	-0.774	-0.019	2.04	0.506	0.494	0.06	52.46	5.55
6	15.06	8.86	-0.186	-0.615	-0.019	2.04	0.506	0.494	0.06	52.47	5.44
7	20.03	11.78	-0.154	-0.548	-0.021	2.04	0.506	0.494	0.06	52.57	5.44
8	41.82	24.60	-0.098	-0.411	-0.020	2.04	0.506	0.494	0.06	52.59	5.44

**TABLE A-15 — Concluded**

Run# 600

Pressure data on Table and Figure B-80

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	42.43	24.96	-0.136	-0.250	0.008	2.02	0.506	0.494	0.08	51.27	10.09
3	20.08	11.81	-0.157	-0.266	0.008	2.02	0.506	0.494	0.08	51.36	10.09
4	14.29	8.41	-0.233	-0.448	0.010	2.02	0.506	0.494	0.08	51.46	10.09
5	10.06	5.92	-0.263	-0.413	0.012	2.02	0.506	0.494	0.08	51.57	10.09
6	6.08	3.58	-0.395	-0.714	0.019	2.03	0.506	0.494	0.08	51.77	10.20
7	4.00	2.35	-0.497	-0.597	0.026	2.03	0.506	0.494	0.08	51.81	10.09
8	3.07	1.81	-0.686	-0.181	0.030	2.03	0.506	0.494	0.08	51.94	10.09
9	2.05	1.21	-1.038	0.408	0.034	2.03	0.506	0.494	0.08	52.00	10.20

Run# 601

Pressure data on Table and Figure B-81

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.08	1.22	-0.968	0.689	0.034	2.04	0.506	0.494	0.10	52.23	15.87
2	3.04	1.79	-0.596	-0.063	0.031	2.04	0.506	0.494	0.10	52.33	16.09
3	3.99	2.35	-0.478	-0.390	0.027	2.04	0.506	0.494	0.10	52.37	15.75
4	6.01	3.54	-0.395	-0.462	0.020	2.05	0.506	0.494	0.10	52.51	16.09
5	10.08	5.93	-0.282	-0.338	0.016	2.05	0.506	0.494	0.10	52.57	15.87
6	15.01	8.83	-0.251	-0.419	0.012	2.05	0.506	0.494	0.10	52.58	15.87
7	20.03	11.78	-0.190	-0.329	0.008	2.05	0.506	0.494	0.10	52.69	15.75
8	41.70	24.53	-0.187	-0.365	0.007	2.05	0.506	0.494	0.10	52.77	15.87

Run# 602

Pressure data on Table and Figure B-82

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.68	24.52	-0.328	-0.410	0.017	2.08	0.506	0.494	0.15	53.23	35.02
2	20.05	11.79	-0.326	-0.414	0.023	2.08	0.506	0.494	0.15	53.28	35.02

**TABLE A-16 - Power on Force Data**  
**Configuration VI - Both Jets - NPR=2**  
**Fixed Ground Board**

Run# 490 Pressure data on Table and Figure B-83											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.99	1.17	-0.843	-0.206	-0.012	2.04	0.506	0.494	0	52.49	0
2	3.05	1.79	-0.482	-0.065	-0.014	2.04	0.505	0.495	0	52.55	0
3	4.06	2.39	-0.358	0.113	-0.009	2.04	0.505	0.495	0	52.58	0
4	5.98	3.52	-0.237	0.201	-0.013	2.04	0.505	0.495	0	52.61	0
5	9.99	5.87	-0.100	0.079	-0.009	2.04	0.505	0.495	0	52.62	0
6	15.02	8.84	-0.076	-0.065	-0.007	2.04	0.505	0.495	0	52.69	0
7	20.05	11.80	-0.054	0.104	-0.008	2.04	0.506	0.494	0	52.60	0
8	30.46	17.92	-0.034	0.037	-0.010	2.04	0.505	0.495	0	52.67	0
9	43.75	25.74	-0.024	0.037	-0.010	2.04	0.505	0.495	0	52.70	0

Run# 487 Pressure data on Table and Figure B-84											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	43.31	25.48	-0.178	-0.132	-0.032	2.01	0.505	0.495	0.06	51.64	5.55
2	30.06	17.68	-0.166	-0.120	-0.032	2.01	0.505	0.495	0.06	51.63	5.55
3	20.01	11.77	-0.182	-0.123	-0.034	2.01	0.505	0.495	0.06	51.77	5.55
4	15.06	8.86	-0.205	-0.164	-0.032	2.01	0.505	0.495	0.06	51.76	5.67
5	10.02	5.90	-0.238	-0.348	-0.030	2.01	0.505	0.495	0.06	51.81	5.67
6	5.98	3.51	-0.279	-0.035	-0.026	2.01	0.505	0.495	0.06	51.74	5.67
7	3.96	2.33	-0.428	-0.025	-0.029	2.01	0.505	0.495	0.06	51.85	5.67
8	3.01	1.77	-0.513	-0.140	-0.024	2.01	0.506	0.494	0.06	51.67	5.67
9	2.01	1.18	-0.863	-0.448	-0.034	2.01	0.505	0.495	0.06	51.78	5.67

Run# 471 Pressure data on Table and Figure B-85											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
3	43.75	25.74	-0.247	0.160	0.012	2.03	0.501	0.499	0.08	52.30	10.09
4	30.04	17.67	-0.245	0.125	0.012	2.03	0.502	0.498	0.08	52.48	9.97
5	20.10	11.83	-0.228	0.159	0.012	2.03	0.501	0.499	0.08	52.56	10.09
6	14.94	8.79	-0.239	0.143	0.015	2.03	0.501	0.499	0.08	52.58	10.09
7	10.00	5.88	-0.277	0.027	0.010	2.04	0.501	0.499	0.08	52.65	10.20
8	5.95	3.50	-0.343	-0.249	-0.003	2.04	0.501	0.499	0.08	52.78	10.20
9	3.95	2.32	-0.477	0.010	0.001	2.04	0.501	0.499	0.08	52.87	10.20
10	3.01	1.77	-0.601	-0.212	0.001	2.04	0.502	0.498	0.08	52.98	10.09
11	1.93	1.14	-0.901	-0.392	0.008	2.04	0.502	0.498	0.08	52.97	10.20

**TABLE A-16 -- Concluded**

Run# 472      Pressure data on Table and Figure B-86											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	1.93	1.13	-0.921	-0.463	0.009	2.05	0.502	0.498	0.10	53.27	15.53
2	3.10	1.82	-0.605	-0.185	0.002	2.06	0.501	0.499	0.10	53.36	15.75
3	3.98	2.34	-0.522	-0.128	-0.000	2.00	0.502	0.498	0.10	51.07	15.75
4	6.00	3.53	-0.398	-0.150	0.007	2.00	0.502	0.498	0.10	51.15	15.75
5	10.12	5.95	-0.307	0.103	0.018	2.01	0.501	0.499	0.10	51.27	15.64
6	15.02	8.83	-0.291	0.167	0.022	2.01	0.501	0.499	0.10	51.38	15.75
7	19.96	11.74	-0.296	0.137	0.021	2.01	0.501	0.499	0.10	51.42	15.64
8	30.10	17.71	-0.299	0.142	0.014	2.01	0.502	0.498	0.10	51.39	15.64
9	43.73	25.73	-0.316	0.116	0.019	2.01	0.502	0.498	0.10	51.56	15.64

Run# 473      Pressure data on Table and Figure B-87											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	43.73	25.72	-0.416	0.409	0.022	1.99	0.502	0.498	0.15	50.31	35.14
2	30.07	17.69	-0.429	0.364	0.025	2.00	0.501	0.499	0.15	50.51	35.36
3	19.92	11.72	-0.391	0.374	0.023	2.00	0.502	0.498	0.15	50.56	35.25
4	15.06	8.86	-0.348	0.390	0.018	2.00	0.501	0.499	0.15	50.61	35.25
5	9.99	5.87	-0.329	0.444	0.028	2.00	0.501	0.499	0.15	50.61	35.36
6	6.06	3.56	-0.377	0.421	0.017	2.00	0.501	0.499	0.15	50.61	35.70
7	4.02	2.36	-0.515	0.158	0.011	2.00	0.502	0.498	0.15	50.64	35.59
8	2.94	1.73	-0.711	-0.357	-0.005	2.00	0.501	0.499	0.15	50.71	35.25
9	1.98	1.17	-0.981	-0.410	0.008	2.00	0.502	0.498	0.15	50.54	35.02

Run# 474      Pressure data on Table and Figure B-88											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	1.95	1.15	-1.030	-0.161	-0.005	2.03	0.501	0.499	0.20	51.08	62.22
2	3.06	1.80	-0.607	0.744	0.018	2.03	0.502	0.498	0.20	51.10	62.45
3	4.03	2.37	-0.479	0.871	0.028	2.03	0.502	0.498	0.20	51.14	62.79
4	5.96	3.50	-0.414	0.867	0.032	2.03	0.502	0.498	0.20	51.23	62.34
5	10.00	5.88	-0.400	0.584	0.032	2.03	0.502	0.498	0.20	51.17	62.56
6	15.13	8.90	-0.440	0.576	0.028	2.03	0.502	0.498	0.20	51.20	62.68
7	20.09	11.82	-0.411	0.523	0.019	2.03	0.501	0.499	0.20	51.18	62.11
8	30.12	17.72	-0.461	0.559	0.021	2.03	0.501	0.499	0.20	51.19	62.22
9	43.70	25.71	-0.515	0.503	0.030	2.03	0.501	0.499	0.20	51.28	62.34

**TABLE A-17 -- Power on Force Data  
Configuration VI -- Both Jets -- NPR=4  
Fixed Ground Board**

Run# 475 Pressure data on Table and Figure B-89											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	44.06	25.91	-0.029	-0.016	0.001	4.00	0.499	0.501	0	137.14	0
2	30.06	17.68	-0.034	-0.000	0.001	4.00	0.499	0.501	0	137.09	0
3	20.03	11.78	-0.056	0.018	0.002	4.00	0.499	0.501	0	137.22	0
4	14.98	8.81	-0.059	-0.027	0.000	4.01	0.499	0.501	0	137.40	0
5	10.08	5.93	-0.117	0.066	-0.000	4.00	0.499	0.501	0	137.29	0
6	5.97	3.51	-0.263	0.199	0.001	4.01	0.498	0.502	0	137.48	0
7	4.04	2.38	-0.359	0.080	0.001	4.01	0.499	0.501	0	137.40	0
8	3.02	1.78	-0.447	-0.052	0.002	4.01	0.499	0.501	0	137.42	0
9	1.97	1.16	-0.828	-0.110	0.002	4.01	0.499	0.501	0	137.69	0

Run# 476 Pressure data on Table and Figure B-90											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.09	1.23	-0.737	-0.119	0.004	4.02	0.499	0.501	0.02	139.70	1.25
2	3.01	1.77	-0.454	-0.020	0.003	4.02	0.499	0.501	0.02	139.74	1.25
3	4.04	2.38	-0.362	0.103	0.002	4.03	0.499	0.501	0.02	140.04	1.25
4	5.94	3.49	-0.265	0.229	0.002	4.02	0.499	0.501	0.02	139.55	1.25
5	10.11	5.95	-0.124	-0.029	0.000	4.03	0.499	0.501	0.02	139.84	1.25
6	15.06	8.86	-0.078	-0.078	0.000	4.03	0.499	0.501	0.02	139.82	1.13
7	19.98	11.75	-0.062	-0.053	0.001	4.03	0.499	0.501	0.02	139.91	1.13
8	30.04	17.67	-0.047	-0.037	0.001	4.02	0.499	0.501	0.02	139.80	1.13
9	43.01	25.30	-0.042	-0.043	0.001	4.02	0.499	0.501	0.02	139.57	1.25

Run# 477 Pressure data on Table and Figure B-91											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
3	42.73	25.13	-0.076	-0.034	0.002	4.02	0.500	0.500	0.04	139.37	5.10
4	30.03	17.66	-0.087	-0.049	0.001	4.02	0.499	0.501	0.04	139.26	5.10
5	20.12	11.84	-0.110	-0.108	-0.000	4.01	0.499	0.501	0.04	138.91	5.21
6	14.94	8.79	-0.130	-0.147	0.001	4.03	0.499	0.501	0.04	139.68	5.10
7	10.02	5.89	-0.156	-0.169	0.001	4.03	0.499	0.501	0.04	139.62	5.10
8	5.99	3.52	-0.268	0.218	0.001	4.03	0.500	0.500	0.04	139.72	5.10
9	4.09	2.41	-0.364	0.139	0.001	4.04	0.499	0.501	0.04	140.31	5.21
10	3.02	1.78	-0.458	-0.007	0.002	4.04	0.500	0.500	0.04	140.24	5.10
11	2.04	1.20	-0.807	-0.165	0.005	4.06	0.499	0.501	0.04	141.04	5.10

**TABLE A-17 --Concluded**

Run# 478											
Pressure data on Table and Figure B-92											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.04	1.20	-0.821	-0.240	0.006	4.00	0.500	0.500	0.06	138.27	11.11
2	3.00	1.76	-0.482	-0.058	0.001	4.02	0.500	0.500	0.06	139.00	11.11
3	4.01	2.36	-0.396	0.109	0.001	4.02	0.499	0.501	0.06	139.03	11.22
4	6.02	3.54	-0.268	0.152	0.001	4.01	0.500	0.500	0.06	138.71	11.11
5	10.08	5.93	-0.200	-0.212	-0.001	4.00	0.500	0.500	0.06	138.20	10.99
6	15.05	8.85	-0.175	-0.085	0.005	4.01	0.499	0.501	0.06	138.37	10.99
7	20.04	11.79	-0.146	-0.038	0.005	4.00	0.499	0.501	0.06	138.19	11.11
8	29.93	17.61	-0.128	-0.022	0.005	4.00	0.499	0.501	0.06	138.11	10.99
9	42.69	25.11	-0.121	-0.014	0.004	4.00	0.499	0.501	0.06	138.05	10.99

Run# 479											
Pressure data on Table and Figure B-93											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.66	25.10	-0.179	0.020	0.005	4.02	0.499	0.501	0.08	138.62	20.06
2	30.03	17.67	-0.173	0.044	0.006	4.02	0.499	0.501	0.08	138.41	20.51
3	20.10	11.82	-0.179	0.066	0.010	4.02	0.499	0.501	0.08	138.39	20.51
4	15.01	8.83	-0.193	0.054	0.008	4.02	0.500	0.500	0.08	138.23	20.29
5	10.11	5.95	-0.234	-0.069	0.007	4.02	0.499	0.501	0.08	138.56	20.40
6	5.99	3.52	-0.282	-0.078	-0.003	4.04	0.500	0.500	0.08	139.22	20.06
7	4.12	2.42	-0.426	0.084	-0.000	4.03	0.499	0.501	0.08	139.02	20.51
8	3.08	1.81	-0.520	-0.077	0.004	4.05	0.499	0.501	0.08	139.88	20.51
9	2.04	1.20	-0.837	-0.299	0.010	4.06	0.499	0.501	0.08	140.23	20.17

Run# 480											
Pressure data on Table and Figure B-94											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.03	1.19	-0.877	-0.361	0.012	4.09	0.500	0.500	0.10	140.66	31.05
2	3.01	1.77	-0.547	-0.139	0.000	4.01	0.499	0.501	0.10	137.48	31.05
3	4.09	2.41	-0.467	0.035	0.001	4.00	0.499	0.501	0.10	136.98	31.28
4	6.03	3.55	-0.318	-0.279	-0.001	4.01	0.499	0.501	0.10	137.13	31.17
5	10.10	5.94	-0.249	0.062	0.012	4.01	0.499	0.501	0.10	137.17	31.05
6	14.97	8.81	-0.210	0.133	0.014	4.01	0.499	0.501	0.10	137.22	31.05
7	19.98	11.76	-0.214	0.099	0.014	4.01	0.499	0.501	0.10	137.18	31.17
8	29.92	17.60	-0.220	0.079	0.012	4.01	0.499	0.501	0.10	137.22	30.83
9	42.63	25.08	-0.236	0.084	0.012	4.01	0.499	0.501	0.10	137.15	30.71



**TABLE A-18 - Power on Force Data**  
**Configuration VI - Both Jets - NPR=6**  
**Fixed Ground Board**

Run# 481 Pressure data on Table and Figure B-95											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.39	24.35	-0.020	0.016	0.001	6.07	0.497	0.503	0	231.01	0
2	30.30	17.82	-0.027	0.019	0.001	6.07	0.497	0.503	0	230.79	0
4	20.08	11.81	-0.044	0.061	0.000	6.06	0.497	0.503	0	230.54	0
5	15.08	8.87	-0.056	0.038	0.000	6.06	0.497	0.503	0	230.49	0
6	10.05	5.91	-0.113	0.138	-0.001	6.07	0.496	0.504	0	230.75	0
7	5.98	3.52	-0.243	0.231	0.001	6.07	0.496	0.504	0	231.06	0
8	4.04	2.38	-0.400	0.158	0.001	6.08	0.496	0.504	0	231.27	0
9	3.00	1.76	-0.568	0.048	0.002	6.08	0.496	0.504	0	231.65	0
10	2.04	1.20	-0.798	-0.082	0.001	6.08	0.496	0.504	0	231.49	0
Run# 482 Pressure data on Table and Figure B-96											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
6	2.04	1.20	-0.872	-0.179	-0.010	6.03	0.497	0.503	0.02	231.91	1.93
7	3.02	1.78	-0.584	0.035	-0.010	6.03	0.497	0.503	0.02	232.02	1.93
8	4.06	2.39	-0.416	0.183	-0.008	6.04	0.497	0.503	0.02	232.59	1.93
9	6.06	3.57	-0.250	0.255	-0.007	6.05	0.497	0.503	0.02	232.83	1.81
10	10.00	5.88	-0.134	0.004	-0.005	6.05	0.497	0.503	0.02	233.01	1.81
11	15.05	8.86	-0.072	-0.067	-0.005	6.06	0.497	0.503	0.02	233.36	1.70
12	20.02	11.78	-0.052	-0.040	-0.004	6.09	0.498	0.502	0.02	234.53	1.93
13	30.09	17.70	-0.044	-0.044	-0.005	6.41	0.497	0.503	0.02	249.78	1.81
14	41.71	24.54	-0.036	-0.041	-0.005	6.00	0.497	0.503	0.02	230.35	1.93
Run# 483 Pressure data on Table and Figure B-97											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.69	24.52	-0.073	-0.107	-0.010	6.03	0.497	0.503	0.04	231.52	7.59
2	30.04	17.67	-0.086	-0.128	-0.010	6.05	0.497	0.503	0.04	232.51	7.59
3	20.05	11.80	-0.106	-0.164	-0.009	6.05	0.497	0.503	0.04	232.41	7.82
4	15.12	8.89	-0.119	-0.179	-0.008	6.06	0.497	0.503	0.04	232.61	7.59
5	10.05	5.91	-0.170	-0.229	-0.010	6.05	0.497	0.503	0.04	232.26	7.71
6	6.05	3.56	-0.259	0.152	-0.012	6.04	0.497	0.503	0.04	231.94	7.59
7	4.01	2.36	-0.425	0.205	-0.012	6.03	0.497	0.503	0.04	231.26	7.71
8	3.03	1.78	-0.588	-0.001	-0.014	6.01	0.496	0.504	0.04	230.63	7.59
9	2.01	1.18	-0.884	-0.311	-0.015	6.00	0.497	0.503	0.04	229.87	7.59

**TABLE A-18 - Concluded.**

Run# 484                      Pressure data on Table and Figure B-98

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	2.10	1.23	-0.835	-0.312	-0.023	5.96	0.497	0.503	0.06	227.32	17.00
3	2.99	1.76	-0.601	-0.113	-0.023	5.97	0.497	0.503	0.06	227.50	16.89
4	4.02	2.37	-0.439	0.155	-0.018	5.96	0.497	0.503	0.06	227.19	17.11
5	6.01	3.54	-0.259	0.061	-0.018	5.97	0.496	0.504	0.06	227.44	16.89
6	10.02	5.90	-0.190	-0.261	-0.016	5.97	0.497	0.503	0.06	227.60	16.89
7	15.03	8.84	-0.159	-0.139	-0.017	5.97	0.497	0.503	0.06	227.85	16.89
8	20.02	11.78	-0.132	-0.098	-0.018	5.98	0.497	0.503	0.06	227.93	16.89
9	30.01	17.65	-0.115	-0.087	-0.018	5.99	0.497	0.503	0.06	228.67	16.77
10	41.75	24.56	-0.112	-0.089	-0.018	6.00	0.497	0.503	0.06	228.91	17.00

Run# 485                      Pressure data on Table and Figure B-99

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.71	24.54	-0.161	-0.084	-0.029	6.03	0.496	0.504	0.08	229.12	30.38
2	29.98	17.64	-0.164	-0.087	-0.030	6.04	0.496	0.504	0.08	229.29	30.60
3	15.03	8.84	-0.183	-0.089	-0.031	6.04	0.496	0.504	0.08	229.66	30.71
4	10.06	5.92	-0.239	-0.226	-0.029	6.05	0.496	0.504	0.08	230.15	30.26
5	6.07	3.57	-0.273	-0.101	-0.025	6.06	0.496	0.504	0.08	230.21	30.60
6	4.02	2.36	-0.487	0.024	-0.028	6.07	0.495	0.505	0.08	230.88	30.49
7	2.99	1.76	-0.646	-0.131	-0.031	6.08	0.496	0.504	0.08	231.23	30.60
8	2.08	1.23	-0.860	-0.470	-0.035	6.08	0.496	0.504	0.08	231.42	30.49

Run# 486                      Pressure data on Table and Figure B-100

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.05	1.21	-0.923	-0.605	-0.045	6.13	0.496	0.504	0.10	231.99	46.81
2	3.06	1.80	-0.666	-0.261	-0.042	6.14	0.495	0.505	0.10	232.33	46.92
3	3.99	2.35	-0.505	-0.081	-0.038	6.15	0.496	0.504	0.10	232.62	46.70
4	6.03	3.55	-0.284	-0.288	-0.033	6.14	0.496	0.504	0.10	232.24	46.70
5	9.96	5.86	-0.240	-0.159	-0.044	6.14	0.495	0.505	0.10	232.34	46.70
6	15.01	8.83	-0.206	-0.088	-0.047	6.14	0.496	0.504	0.10	232.24	46.92
7	19.97	11.75	-0.191	-0.093	-0.045	6.13	0.495	0.505	0.10	231.96	46.58
8	29.93	17.61	-0.199	-0.099	-0.045	6.11	0.495	0.505	0.10	231.05	46.70

**TABLE A-19 -- Power on Force Data  
Configuration VII -- Both Jets -- NPR=2  
Fixed Ground Board**

Run# 491 Pressure data on Table and Figure B-101											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	2.02	1.19	-0.776	0.424	-0.001	2.00	0.500	0.500	0	50.97	0
3	3.03	1.78	-0.449	0.209	-0.003	2.01	0.499	0.501	0	51.12	0
4	3.99	2.35	-0.336	0.231	-0.001	2.00	0.501	0.499	0	50.98	0
5	6.05	3.56	-0.208	0.284	-0.000	2.00	0.500	0.500	0	51.03	0
6	15.10	8.88	-0.083	0.174	-0.003	2.01	0.500	0.500	0	51.06	0
7	19.99	11.76	-0.057	0.068	-0.003	2.01	0.500	0.500	0	51.24	0
8	30.07	17.69	-0.035	0.031	-0.005	2.01	0.500	0.500	0	51.29	0
9	43.66	25.68	-0.025	0.043	-0.001	2.01	0.500	0.500	0	51.23	0

Run# 492 Pressure data on Table and Figure B-102											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	43.65	25.67	-0.063	0.007	-0.001	1.99	0.501	0.499	0.02	51.08	0.68
2	30.06	17.68	-0.074	0.025	0.000	1.99	0.500	0.500	0.02	51.06	0.68
3	20.05	11.80	-0.084	0.038	0.000	1.99	0.499	0.501	0.02	51.16	0.68
4	15.00	8.82	-0.095	0.046	-0.001	2.00	0.500	0.500	0.02	51.30	0.68
5	10.03	5.90	-0.145	0.019	0.004	2.00	0.500	0.500	0.02	51.34	0.68
6	6.04	3.55	-0.216	0.257	-0.002	2.00	0.500	0.500	0.02	51.44	0.68
7	3.99	2.35	-0.344	0.223	-0.001	2.00	0.499	0.501	0.02	51.55	0.68
8	3.00	1.76	-0.466	0.191	-0.005	2.00	0.500	0.500	0.02	51.52	0.79
9	2.03	1.19	-0.770	0.338	-0.003	2.00	0.499	0.501	0.02	51.60	0.57

Run# 493 Pressure data on Table and Figure B-103											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.03	1.19	-0.797	0.307	-0.007	2.01	0.500	0.500	0.04	51.76	2.61
2	2.99	1.76	-0.492	0.158	-0.010	2.01	0.500	0.500	0.04	51.90	2.49
3	4.02	2.37	-0.358	0.241	-0.004	2.01	0.500	0.500	0.04	51.87	2.49
4	6.03	3.55	-0.237	0.155	-0.006	2.01	0.500	0.500	0.04	51.89	2.49
5	9.99	5.88	-0.199	-0.064	-0.006	2.01	0.500	0.500	0.04	52.02	2.49
6	15.03	8.84	-0.140	-0.064	-0.003	2.01	0.500	0.500	0.04	51.98	2.49
7	20.01	11.77	-0.137	-0.092	-0.007	2.02	0.499	0.501	0.04	52.11	2.49
8	30.06	17.68	-0.121	-0.127	-0.008	2.02	0.500	0.500	0.04	52.22	2.49
9	43.70	25.71	-0.099	-0.115	-0.008	2.02	0.500	0.500	0.04	52.23	2.61

Run# 494 Pressure data on Table and Figure B-104											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	43.69	25.70	-0.183	0.016	-0.018	2.02	0.499	0.501	0.06	52.30	5.67
2	30.05	17.67	-0.192	0.007	-0.017	2.02	0.500	0.500	0.06	52.34	5.67
3	20.07	11.80	-0.215	0.033	-0.016	2.02	0.500	0.500	0.06	52.33	5.67
4	15.08	8.87	-0.240	0.013	-0.019	2.03	0.500	0.500	0.06	52.43	5.67
5	10.04	5.91	-0.269	0.006	-0.010	2.02	0.500	0.500	0.06	52.41	5.67
6	6.01	3.53	-0.311	-0.120	-0.011	2.03	0.500	0.500	0.06	52.50	5.78
7	4.08	2.40	-0.387	0.215	-0.011	2.03	0.500	0.500	0.06	52.49	5.67
8	3.01	1.77	-0.539	0.127	-0.016	2.03	0.500	0.500	0.06	52.65	5.67
9	1.99	1.17	-0.843	0.265	-0.010	2.03	0.500	0.500	0.06	52.57	5.67

**TABLE A-19 - Concluded**

**Run# 495**

Pressure data on Table and Figure B-105

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.99	1.17	-0.895	0.208	-0.022	2.03	0.499	0.501	0.08	52.61	10.20
2	3.02	1.78	-0.565	0.138	-0.022	2.03	0.500	0.500	0.08	52.66	10.09
3	4.01	2.36	-0.434	0.151	-0.021	2.03	0.500	0.500	0.08	52.69	10.20
4	6.03	3.55	-0.368	-0.133	-0.022	2.04	0.500	0.500	0.08	52.76	10.20
5	10.05	5.91	-0.326	0.132	-0.033	2.04	0.500	0.500	0.08	52.75	9.97

**Run# 498**

Pressure data on Table and Figure B-106

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
4	44.02	25.90	-0.461	0.768	0.003	2.01	0.500	0.500	0.15	50.99	35.25
5	30.22	17.78	-0.425	0.750	-0.000	2.01	0.499	0.501	0.15	50.90	34.79
6	19.84	11.67	-0.410	0.916	0.005	2.00	0.501	0.499	0.15	50.64	35.59
7	15.06	8.86	-0.403	0.739	0.004	2.01	0.500	0.500	0.15	51.15	35.59
8	10.12	5.96	-0.394	0.829	0.007	2.01	0.501	0.499	0.15	51.15	35.59
9	6.00	3.53	-0.484	0.751	0.004	2.02	0.500	0.500	0.15	51.42	35.36
10	4.03	2.37	-0.571	0.192	-0.024	2.02	0.500	0.500	0.15	51.46	35.48
11	3.08	1.81	-0.858	0.243	-0.031	2.02	0.500	0.500	0.15	51.34	35.48
12	2.10	1.24	-1.380	0.516	-0.026	2.02	0.500	0.500	0.15	51.46	35.36

**Run# 499**

Pressure data on Table and Figure B-107

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.10	1.24	-1.460	1.006	-0.047	2.05	0.500	0.500	0.20	52.09	62.68
2	2.94	1.73	-0.960	0.459	-0.028	2.06	0.500	0.500	0.20	52.52	62.11
3	3.88	2.28	-0.659	1.106	0.012	2.05	0.500	0.500	0.20	52.26	62.11
4	6.02	3.54	-0.522	1.241	0.026	2.06	0.499	0.501	0.20	52.44	62.11
5	10.13	5.96	-0.430	0.681	0.031	2.01	0.500	0.500	0.20	50.27	61.66
6	14.96	8.80	-0.541	0.619	0.031	2.01	0.499	0.501	0.20	50.31	62.34
7	20.08	11.81	-0.475	0.629	0.016	2.01	0.499	0.501	0.20	50.23	62.34
8	30.03	17.67	-0.571	0.750	0.027	2.01	0.500	0.500	0.20	50.35	62.11
9	44.52	26.19	-0.586	0.751	0.022	2.01	0.500	0.500	0.20	50.34	62.11

**TABLE A-20 - Power on Force Data  
Configuration VII - Both Jets - NPR=4  
Fixed Ground Board**

Run# 500 Pressure data on Table and Figure B-108

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.97	25.28	-0.025	0.016	0.000	4.02	0.496	0.504	0	138.12	0
2	29.96	17.63	-0.033	0.026	0.001	4.02	0.496	0.504	0	138.26	0
3	20.06	11.80	-0.052	0.066	0.001	4.02	0.495	0.505	0	138.27	0
4	15.01	8.83	-0.078	0.040	-0.002	4.02	0.495	0.505	0	138.12	0
5	10.11	5.94	-0.107	0.069	-0.002	4.03	0.495	0.505	0	138.36	0
6	6.13	3.61	-0.222	0.309	-0.003	4.02	0.495	0.505	0	137.85	0
7	4.01	2.36	-0.352	0.177	-0.003	4.01	0.495	0.505	0	137.80	0
8	3.00	1.77	-0.582	0.335	-0.005	4.02	0.495	0.505	0	138.18	0
9	2.02	1.19	-1.345	0.286	0.000	4.02	0.496	0.504	0	138.05	0

Run# 501 Pressure data on Table and Figure B-109

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.99	1.17	-1.304	0.366	0.001	3.98	0.495	0.505	0.02	137.78	1.47
2	3.02	1.77	-0.544	0.345	-0.004	3.98	0.496	0.504	0.02	137.85	1.36
3	4.05	2.38	-0.351	0.211	-0.004	3.98	0.495	0.505	0.02	137.83	1.25
4	6.07	3.57	-0.234	0.340	-0.003	3.98	0.495	0.505	0.02	137.86	1.25
5	9.97	5.86	-0.125	-0.038	-0.005	3.98	0.495	0.505	0.02	138.03	1.25
6	15.09	8.88	-0.070	0.014	-0.005	3.98	0.495	0.505	0.02	137.87	1.13
7	19.92	11.72	-0.054	0.020	-0.004	3.98	0.496	0.504	0.02	137.92	1.25
8	30.00	17.64	-0.048	0.005	-0.004	3.98	0.495	0.505	0.02	138.10	1.25
9	42.75	25.14	-0.038	0.001	-0.003	3.98	0.495	0.505	0.02	137.89	1.25

Run# 502 Pressure data on Table and Figure B-110

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	42.77	25.16	-0.072	-0.041	-0.004	3.99	0.495	0.505	0.04	138.15	5.21
2	29.93	17.61	-0.086	-0.060	-0.005	3.99	0.495	0.505	0.04	138.12	5.21
3	20.04	11.79	-0.106	-0.078	-0.006	3.99	0.496	0.504	0.04	138.26	5.21
4	15.02	8.84	-0.102	-0.048	-0.004	4.00	0.495	0.505	0.04	138.31	5.21
5	10.04	5.90	-0.172	-0.065	-0.006	3.99	0.495	0.505	0.04	138.19	5.44
6	6.08	3.57	-0.240	0.237	-0.005	3.99	0.496	0.504	0.04	138.21	5.33
7	3.97	2.34	-0.399	0.204	-0.006	4.00	0.495	0.505	0.04	138.30	5.21
8	2.95	1.74	-0.661	0.347	-0.006	3.99	0.495	0.505	0.04	138.28	5.21
9	1.95	1.15	-1.517	0.308	-0.001	4.00	0.495	0.505	0.04	138.29	5.33

Run# 503 Pressure data on Table and Figure B-111

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.92	1.13	-1.520	0.373	-0.000	4.01	0.495	0.505	0.06	138.55	11.22
2	3.00	1.77	-0.647	0.324	-0.004	4.01	0.496	0.504	0.06	138.51	10.99
3	4.10	2.41	-0.406	0.235	-0.005	4.01	0.495	0.505	0.06	138.53	11.11
4	6.00	3.53	-0.254	0.169	-0.007	4.01	0.495	0.505	0.06	138.63	10.99
5	10.01	5.89	-0.212	-0.081	-0.007	4.01	0.495	0.505	0.06	138.52	10.99
6	15.07	8.87	-0.185	0.001	-0.005	4.01	0.495	0.505	0.06	138.48	11.11
7	20.03	11.78	-0.160	0.021	-0.001	4.01	0.495	0.505	0.06	138.71	10.99
8	29.96	17.62	-0.125	-0.010	-0.004	4.01	0.496	0.504	0.06	138.57	10.99
9	43.06	25.33	-0.108	-0.000	-0.002	4.01	0.495	0.505	0.06	138.71	10.99

**TABLE A-20 — Concluded**

Run# 504											
Pressure data on Table and Figure B-112											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	43.05	25.33	-0.173	0.060	-0.003	4.03	0.495	0.505	0.08	138.77	20.17
2	30.19	17.76	-0.170	0.079	-0.001	4.03	0.495	0.505	0.08	138.96	20.29
3	19.98	11.76	-0.204	0.113	-0.000	4.03	0.495	0.505	0.08	139.05	20.40
4	14.96	8.80	-0.231	0.153	-0.001	4.03	0.495	0.505	0.08	138.95	20.51
5	10.04	5.91	-0.281	0.114	-0.004	4.03	0.495	0.505	0.08	139.01	20.17
6	6.02	3.54	-0.277	0.085	-0.009	4.03	0.495	0.505	0.08	138.96	20.29
7	4.05	2.38	-0.440	0.259	-0.008	4.03	0.495	0.505	0.08	139.01	20.51
8	2.96	1.74	-0.656	0.331	-0.005	4.03	0.495	0.505	0.08	138.97	20.17
9	2.02	1.19	-1.447	0.460	0.004	4.04	0.495	0.505	0.08	139.18	20.51

Run# 505											
Pressure data on Table and Figure B-113											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.99	1.17	-1.476	0.522	0.001	4.05	0.495	0.505	0.10	139.22	31.17
2	3.10	1.82	-0.672	0.325	-0.002	4.05	0.495	0.505	0.10	139.22	31.17
3	4.00	2.35	-0.486	0.258	-0.007	4.05	0.495	0.505	0.10	139.19	31.05
4	6.02	3.54	-0.346	-0.093	-0.014	3.87	0.495	0.505	0.10	131.21	31.17
5	10.01	5.89	-0.314	0.294	0.003	4.00	0.496	0.504	0.10	136.64	31.05
6	15.03	8.84	-0.258	0.263	0.006	4.00	0.495	0.505	0.10	136.72	30.94
7	19.95	11.73	-0.246	0.203	0.005	4.00	0.495	0.505	0.10	136.79	31.05
8	29.94	17.61	-0.228	0.162	0.002	4.00	0.495	0.505	0.10	136.66	30.94
9	43.00	25.29	-0.234	0.177	0.002	4.00	0.495	0.505	0.10	136.76	31.05

**TABLE A-21 - Power on Force Data**  
**Configuration VII - Both Jets - NPR=6**  
**Fixed Ground Board**

Run# 506 Pressure data on Table and Figure B-114											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	41.32	24.30	-0.019	0.026	0.001	6.03	0.494	0.506	0	229.09	0
5	30.11	17.71	-0.026	0.034	0.002	6.06	0.493	0.507	0	230.45	0
6	20.05	11.79	-0.039	0.058	0.001	6.00	0.493	0.507	0	227.58	0
7	14.97	8.81	-0.056	0.038	0.001	5.99	0.493	0.507	0	227.22	0
8	10.11	5.95	-0.119	0.074	-0.000	5.97	0.493	0.507	0	226.40	0
9	5.99	3.52	-0.208	0.288	0.000	5.97	0.493	0.507	0	226.24	0
10	3.93	2.31	-0.410	0.369	0.000	5.98	0.493	0.507	0	227.00	0
11	3.03	1.78	-0.580	0.357	-0.000	5.95	0.493	0.507	0	225.27	0
12	1.97	1.16	-1.166	0.722	0.000	5.94	0.493	0.507	0	224.84	0

Run# 507 Pressure data on Table and Figure B-115											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.29	24.29	-0.042	-0.005	0.001	6.02	0.494	0.506	0.02	231.46	1.93
2	30.08	17.69	-0.048	0.000	0.001	6.00	0.494	0.506	0.02	230.61	2.04
3	20.12	11.84	-0.057	0.015	0.002	5.99	0.494	0.506	0.02	230.13	1.93
4	14.97	8.81	-0.073	0.028	0.001	5.97	0.493	0.507	0.02	229.22	1.81
5	10.06	5.92	-0.122	-0.015	0.000	5.95	0.494	0.506	0.02	228.38	1.93
6	5.97	3.51	-0.218	0.290	0.001	5.95	0.493	0.507	0.02	228.33	1.93
7	4.04	2.37	-0.405	0.408	0.001	5.94	0.493	0.507	0.02	227.92	1.93
8	2.98	1.76	-0.599	0.378	0.001	5.93	0.493	0.507	0.02	227.35	2.15
9	2.06	1.21	-0.999	0.392	-0.009	5.92	0.493	0.507	0.02	226.62	2.15

Run# 508 Pressure data on Table and Figure B-116											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.95	1.14	-1.133	0.375	-0.016	6.05	0.493	0.507	0.04	232.32	7.59
2	3.09	1.82	-0.620	0.398	0.001	5.95	0.493	0.507	0.04	227.65	7.59
3	3.99	2.35	-0.423	0.427	0.000	5.98	0.493	0.507	0.04	228.95	7.59
4	6.06	3.57	-0.235	0.230	-0.000	6.04	0.493	0.507	0.04	231.87	7.59
5	10.03	5.90	-0.167	-0.040	0.000	6.04	0.493	0.507	0.04	231.63	7.48
6	15.10	8.88	-0.114	-0.055	0.000	5.91	0.493	0.507	0.04	225.88	7.48
7	20.16	11.86	-0.106	-0.064	0.000	5.98	0.493	0.507	0.04	228.86	7.25
8	30.01	17.65	-0.088	-0.062	0.001	5.96	0.493	0.507	0.04	228.21	7.25
9	41.23	24.25	-0.078	-0.054	0.001	5.86	0.493	0.507	0.04	223.49	7.37

Run# 509 Pressure data on Table and Figure B-117											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.22	24.25	-0.117	0.027	0.003	6.05	0.492	0.508	0.06	231.12	16.89
2	30.01	17.65	-0.132	0.028	0.003	6.03	0.493	0.507	0.06	230.30	17.00
3	20.08	11.81	-0.159	0.022	0.002	6.01	0.493	0.507	0.06	229.47	17.00
5	15.05	8.85	-0.184	0.013	0.001	5.97	0.493	0.507	0.06	227.40	16.66
6	10.10	5.94	-0.214	-0.065	-0.000	5.95	0.492	0.508	0.06	226.83	16.77
7	5.95	3.50	-0.263	0.175	-0.001	5.91	0.493	0.507	0.06	224.66	16.89
8	4.02	2.36	-0.455	0.475	0.002	6.73	0.492	0.508	0.06	263.12	16.89
10	3.04	1.79	-0.652	0.391	0.002	5.92	0.493	0.507	0.06	225.08	16.77
11	1.98	1.16	-1.209	0.307	-0.019	5.96	0.493	0.507	0.06	227.05	17.00

**TABLE A-21 – Concluded**

Run# 511		Pressure data on Table and Figure B-118									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	41.62	24.48	-0.167	0.067	0.001	6.05	0.493	0.507	0.08	229.44	30.71
2	30.11	17.71	-0.163	0.066	0.001	6.05	0.493	0.507	0.08	229.65	30.60
4	20.10	11.83	-0.197	0.090	0.002	6.06	0.493	0.507	0.08	230.20	30.38
5	14.02	8.25	-0.221	0.125	0.001	6.07	0.493	0.507	0.08	230.44	30.60
6	10.06	5.92	-0.275	0.115	0.001	6.07	0.493	0.507	0.08	230.71	30.60
7	6.01	3.53	-0.281	-0.002	-0.006	6.07	0.493	0.507	0.08	230.74	30.60
8	4.03	2.37	-0.446	0.415	-0.003	6.08	0.493	0.507	0.08	230.94	30.49
9	3.03	1.78	-0.629	0.398	-0.000	6.09	0.493	0.507	0.08	231.27	30.71
10	2.07	1.22	-0.987	0.466	-0.014	6.09	0.493	0.507	0.08	231.48	30.60

Run# 510		Pressure data on Table and Figure B-119									
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
3	2.02	1.19	-1.130	0.401	-0.025	6.01	0.493	0.507	0.10	226.13	46.81
4	2.99	1.76	-0.673	0.393	-0.003	6.02	0.494	0.506	0.10	226.48	46.70
5	3.99	2.35	-0.503	0.433	-0.001	6.03	0.494	0.506	0.10	227.18	46.36
6	6.07	3.57	-0.323	0.025	-0.005	6.04	0.494	0.506	0.10	227.60	46.58
7	10.02	5.90	-0.286	0.280	0.006	6.05	0.494	0.506	0.10	228.10	46.58
8	14.97	8.81	-0.248	0.254	0.008	6.06	0.493	0.507	0.10	228.29	46.36
9	20.03	11.78	-0.217	0.184	0.005	6.06	0.493	0.507	0.10	228.55	46.81
10	30.08	17.69	-0.204	0.154	0.004	6.07	0.493	0.507	0.10	228.84	46.58
11	42.73	25.14	-0.208	0.151	0.003	6.08	0.493	0.507	0.10	229.32	46.81



**TABLE A-22 - Power on Force Data**  
**Configuration VII - Rear Jet Alone - NPR=2**  
**Fixed Ground Board**

Run# 512 Pressure data on Tabale and Figure B-120											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	2.00	1.67	-1.356	-0.440	0.016	2.00	0.000	1.000	0	25.33	0
3	3.09	2.57	-1.051	-0.843	0.020	2.00	0.000	1.000	0	25.43	0
4	4.04	3.37	-0.681	-0.631	0.014	2.00	0.000	1.000	0	25.49	0
5	6.02	5.01	-0.306	-0.326	0.004	2.00	0.000	1.000	0	25.47	0
6	10.01	8.34	-0.131	-0.180	0.010	2.00	0.000	1.000	0	25.51	0
7	15.02	12.52	-0.072	-0.096	0.010	2.01	0.000	1.000	0	25.65	0
8	19.99	16.66	-0.050	-0.042	0.011	2.01	0.000	1.000	0	25.66	0
9	29.99	24.99	-0.037	0.012	0.013	2.02	0.000	1.000	0	25.75	0
10	44.25	36.87	-0.036	-0.078	0.009	2.02	0.000	1.000	0	25.77	0

Run# 513 Pressure data on Tabale and Figure B-121											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.27	36.89	-0.031	-0.019	-0.009	1.99	0.000	1.000	0.02	25.60	0.57
2	30.01	25.01	-0.003	0.089	-0.011	1.99	0.000	1.000	0.02	25.61	0.68
3	20.04	16.70	-0.036	-0.060	-0.014	2.00	0.000	1.000	0.02	25.64	0.68
4	14.98	12.48	-0.062	-0.112	-0.017	2.00	0.000	1.000	0.02	25.69	0.68
5	10.05	8.38	-0.122	-0.111	-0.013	2.00	0.000	1.000	0.02	25.71	0.68
6	6.03	5.03	-0.304	-0.424	-0.016	2.00	0.000	1.000	0.02	25.77	0.68
7	4.01	3.34	-0.667	-0.637	-0.009	2.00	0.000	1.000	0.02	25.76	0.68
8	2.98	2.49	-1.096	-0.702	0.002	2.01	0.000	1.000	0.02	25.91	0.68
9	1.99	1.66	-1.316	-0.288	-0.005	2.01	0.000	1.000	0.02	25.86	0.68

Run# 514 Pressure data on Tabale and Figure B-122											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.98	1.65	-1.389	-0.478	-0.009	2.01	0.000	1.000	0.04	25.93	2.49
2	3.02	2.52	-1.070	-0.786	-0.012	2.01	0.000	1.000	0.04	25.92	2.49
3	3.98	3.32	-0.743	-0.955	-0.009	2.01	0.000	1.000	0.04	25.94	2.49
4	6.03	5.03	-0.467	-0.955	-0.016	2.01	0.000	1.000	0.04	25.97	2.49
5	10.08	8.40	-0.233	-0.611	-0.016	2.01	0.000	1.000	0.04	25.97	2.49
6	15.09	12.57	-0.166	-0.257	-0.011	2.01	0.000	1.000	0.04	26.01	2.49
7	20.07	16.72	-0.093	0.028	-0.015	2.01	0.000	1.000	0.04	26.00	2.49
8	30.05	25.04	-0.047	0.140	-0.015	2.01	0.000	1.000	0.04	25.97	2.49
9	44.28	36.90	-0.043	0.094	-0.010	2.02	0.000	1.000	0.04	26.08	2.38

Run# 515 Pressure data on Tabale and Figure B-123											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.28	36.90	-0.124	0.408	-0.004	2.02	0.000	1.000	0.06	26.14	5.67
2	29.94	24.95	-0.115	0.407	-0.005	2.02	0.000	1.000	0.06	26.15	5.67
3	20.03	16.69	-0.142	0.432	-0.001	2.02	0.000	1.000	0.06	26.16	5.67
4	15.08	12.57	-0.167	0.450	-0.010	2.02	0.000	1.000	0.06	26.10	5.67
5	10.02	8.35	-0.316	-0.087	-0.008	2.02	0.000	1.000	0.06	26.17	5.67
6	6.05	5.04	-0.557	-1.177	-0.039	2.03	0.000	1.000	0.06	26.20	5.67
7	4.10	3.42	-0.848	-1.675	-0.016	2.03	0.000	1.000	0.06	26.24	5.67
8	3.08	2.57	-1.178	-1.143	-0.013	2.02	0.000	1.000	0.06	26.17	5.78
9	2.06	1.72	-1.453	-0.516	-0.016	2.03	0.000	1.000	0.06	26.20	5.67

**TABLE A-22 -- Concluded**

**Run# 516**

Pressure data on Tabale and Figure B-124

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.04	1.70	-1.594	-0.851	-0.022	2.03	0.000	1.000	0.08	26.29	10.20
2	2.98	2.48	-1.215	-1.291	-0.020	2.03	0.000	1.000	0.08	26.28	10.09
3	4.07	3.39	-0.908	-1.706	-0.024	2.03	0.000	1.000	0.08	26.31	10.20
4	6.08	5.06	-0.576	-0.388	-0.005	2.03	0.000	1.000	0.08	26.29	10.09
5	10.10	8.41	-0.321	0.605	0.011	2.03	0.000	1.000	0.08	26.35	9.97
6	14.93	12.44	-0.200	0.816	0.010	2.03	0.000	1.000	0.08	26.31	10.09
7	19.98	16.65	-0.167	0.736	0.006	2.04	0.000	1.000	0.08	26.39	10.09
8	29.95	24.36	-0.181	0.630	-0.001	2.03	0.000	1.000	0.08	26.30	10.09
9	44.27	36.89	-0.208	0.607	0.008	2.03	0.000	1.000	0.08	26.36	10.09

**Run# 517**

Pressure data on Tabale and Figure B-125

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	44.27	36.89	-0.268	0.936	0.012	2.04	0.000	1.000	0.10	26.43	15.64
2	29.99	24.99	-0.262	0.900	0.015	2.04	0.000	1.000	0.10	26.43	15.53
3	20.05	16.71	-0.254	0.977	0.016	2.04	0.000	1.000	0.10	26.48	15.75
4	14.94	12.45	-0.251	0.988	0.015	2.04	0.000	1.000	0.10	26.46	15.87
5	9.95	8.29	-0.313	1.060	0.017	2.04	0.000	1.000	0.10	26.45	15.75
6	5.99	5.00	-0.541	0.901	0.011	2.04	0.000	1.000	0.10	26.45	15.87
7	4.00	3.33	-0.849	-0.534	-0.006	2.04	0.000	1.000	0.10	26.43	15.75
8	3.06	2.55	-1.246	-1.020	-0.015	2.05	0.000	1.000	0.10	26.52	15.75
9	2.00	1.67	-1.740	-1.089	-0.047	2.05	0.000	1.000	0.10	26.51	15.75

**Run# 518**

Pressure data on Tabale and Figure B-126

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	2.12	1.76	-1.969	0.467	-0.036	2.01	0.000	1.000	0.15	25.64	35.02
2	2.98	2.48	-0.859	2.687	0.020	2.02	0.000	1.000	0.15	25.67	35.14
3	4.10	3.42	-0.485	3.144	0.003	2.02	0.000	1.000	0.15	25.66	35.25
4	6.04	5.03	-0.380	2.783	0.003	2.02	0.000	1.000	0.15	25.70	35.48
5	10.06	8.38	-0.330	1.838	0.029	2.02	0.000	1.000	0.15	25.69	35.70
6	15.07	12.56	-0.371	1.658	0.025	2.02	0.000	1.000	0.15	25.69	35.48
7	20.03	16.69	-0.461	1.519	0.039	2.02	0.000	1.000	0.15	25.71	35.59
8	29.99	24.99	-0.369	1.794	0.017	2.02	0.000	1.000	0.15	25.70	35.48
9	44.48	37.06	-0.410	1.688	0.027	2.02	0.000	1.000	0.15	25.68	35.48

**Run# 519**

Pressure data on Tabale and Figure B-127

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	44.46	37.05	-0.586	1.912	0.037	2.04	0.000	1.000	0.20	25.89	63.24
2	29.92	24.93	-0.545	1.934	0.033	2.04	0.000	1.000	0.20	25.85	62.90
3	19.92	16.60	-0.495	2.047	0.032	2.04	0.000	1.000	0.20	25.80	63.02
4	15.00	12.50	-0.498	2.114	0.044	2.04	0.000	1.000	0.20	25.87	63.13
5	10.07	8.39	-0.397	2.248	0.029	2.04	0.000	1.000	0.20	25.88	63.36
6	6.13	5.11	-0.476	4.019	0.037	2.04	0.000	1.000	0.20	25.86	63.13
7	4.08	3.40	-0.524	4.828	0.033	2.04	0.000	1.000	0.20	25.87	63.36
8	3.05	2.54	-0.558	5.406	0.026	2.05	0.000	1.000	0.20	25.93	63.24
9	2.03	1.69	-1.654	5.141	-0.008	2.04	0.000	1.000	0.20	25.91	63.36

**TABLE A-23 - Power on Force Data**  
**Configuration I - Both Jets - NPR=2**  
**Belt Stopped**

Run# 407

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	2.01	1.18	-0.700	0.190	-0.002	2.01	0.482	0.518	0	51.14	0
3	2.98	1.75	-0.343	-0.012	0.003	2.01	0.482	0.518	0	51.26	0
4	3.96	2.33	-0.270	0.183	0.002	2.01	0.482	0.518	0	51.34	0
5	5.99	3.52	-0.190	0.069	0.000	2.01	0.482	0.518	0	51.41	0
6	10.00	5.88	-0.152	0.078	0.002	2.02	0.482	0.518	0	51.54	0
7	15.08	8.87	-0.081	0.049	0.004	2.02	0.482	0.518	0	51.62	0
8	20.02	11.78	-0.046	0.049	0.005	2.02	0.482	0.518	0	51.68	0
9	30.05	17.68	-0.032	0.026	0.005	2.02	0.481	0.519	0	51.76	0
10	45.45	26.73	-0.024	-0.000	0.002	2.03	0.482	0.518	0	51.90	0

Run# 408.00

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.60	26.23	-0.051	-0.097	-0.000	2.03	0.482	0.518	0.02	52.13	0.68
2	30.06	17.68	-0.060	-0.080	0.000	2.03	0.482	0.518	0.02	52.13	0.68
3	19.99	11.76	-0.069	-0.074	0.004	2.03	0.481	0.519	0.02	52.27	0.68
4	15.08	8.87	-0.084	-0.029	0.005	2.03	0.481	0.519	0.02	52.31	0.68
5	10.07	5.92	-0.161	-0.124	0.002	2.03	0.482	0.518	0.02	52.36	0.79
6	6.09	3.58	-0.201	0.028	0.004	2.04	0.481	0.519	0.02	52.50	0.79

Run# 409.00

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	5.60	3.30	-0.318	-0.006	-0.000	2.04	0.481	0.519	0.02	52.86	0.68
2	2.00	1.18	-0.742	0.019	-0.006	2.05	0.481	0.519	0.02	52.99	0.68
3	3.02	1.78	-0.287	-0.048	-0.003	2.05	0.481	0.519	0.02	53.11	0.68
4	4.03	2.37	-0.254	-0.042	-0.004	2.05	0.481	0.519	0.02	53.20	0.68
5	6.04	3.55	-0.165	-0.014	-0.000	2.05	0.481	0.519	0.02	53.31	0.68
6	9.99	5.88	-0.144	-0.117	0.002	2.06	0.481	0.519	0.02	53.44	0.57
7	15.00	8.82	-0.092	-0.031	0.004	2.06	0.481	0.519	0.02	53.50	0.57
8	19.98	11.75	-0.080	-0.069	0.005	2.06	0.481	0.519	0.02	53.63	0.68
9	30.00	17.64	-0.054	-0.084	0.004	2.06	0.481	0.519	0.02	53.62	0.57
10	44.72	26.31	-0.040	-0.084	0.001	2.06	0.481	0.519	0.02	53.58	0.57

Run# 410.00

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.72	26.30	-0.068	-0.113	0.002	2.07	0.481	0.519	0.04	53.80	2.49
2	30.01	17.66	-0.093	-0.134	0.002	2.07	0.481	0.519	0.04	53.87	2.49
3	20.11	11.83	-0.121	-0.137	0.000	2.07	0.481	0.519	0.04	53.92	2.61
4	15.02	8.84	-0.162	-0.124	0.002	2.07	0.481	0.519	0.04	53.92	2.61
5	9.99	5.88	-0.167	-0.207	0.001	2.07	0.480	0.520	0.04	53.98	2.61
6	6.00	3.53	-0.195	-0.047	-0.001	2.07	0.481	0.519	0.04	54.02	2.61
7	3.97	2.33	-0.301	-0.061	-0.005	2.07	0.481	0.519	0.04	54.04	2.61
8	3.00	1.76	-0.335	-0.054	-0.004	2.07	0.481	0.519	0.04	54.06	2.49
9	1.99	1.17	-0.732	0.102	-0.004	2.08	0.481	0.519	0.04	54.14	2.49

**TABLE A-23 - Concluded**

Run# 411.00

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	1.99	1.17	-0.718	0.189	-0.002	2.08	0.480	0.520	0.06	54.33	5.78
2	3.06	1.80	-0.320	-0.041	-0.003	2.08	0.481	0.519	0.06	54.37	5.67
3	4.02	2.36	-0.287	-0.073	-0.011	2.08	0.481	0.519	0.06	54.34	5.67
4	5.98	3.52	-0.196	-0.069	-0.002	2.09	0.481	0.519	0.06	54.58	5.67
5	10.08	5.93	-0.178	-0.205	-0.002	2.09	0.481	0.519	0.06	54.66	5.67
6	15.06	8.86	-0.196	-0.049	0.006	2.09	0.481	0.519	0.06	54.77	5.67
7	20.03	11.78	-0.148	-0.089	0.003	2.09	0.481	0.519	0.06	54.81	5.55
8	29.98	17.63	-0.112	-0.109	0.005	2.10	0.481	0.519	0.06	54.97	5.55
9	44.71	26.30	-0.106	-0.132	0.001	2.10	0.481	0.519	0.06	54.97	5.67

Run# 412.00

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.70	26.29	-0.153	-0.117	0.003	2.11	0.481	0.519	0.08	55.42	10.20
2	29.98	17.63	-0.132	-0.123	-0.001	2.11	0.481	0.519	0.08	55.39	10.20
3	20.00	11.76	-0.162	-0.076	0.005	2.11	0.481	0.519	0.08	55.46	10.20
4	15.11	8.89	-0.195	0.006	0.003	2.11	0.481	0.519	0.08	55.49	10.09
5	10.06	5.92	-0.210	-0.115	0.001	2.11	0.481	0.519	0.08	55.56	10.20
6	5.98	3.52	-0.215	-0.051	-0.009	2.11	0.481	0.519	0.08	55.59	10.09
7	4.03	2.37	-0.356	-0.134	-0.013	2.12	0.481	0.519	0.08	55.70	10.79
8	3.02	1.77	-0.382	-0.089	-0.011	2.12	0.481	0.519	0.08	55.66	10.20

Run# 413.00

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.00	1.77	-0.417	-0.019	-0.008	2.13	0.481	0.519	0.10	56.15	15.64
2	4.06	2.39	-0.382	-0.082	-0.017	2.13	0.480	0.520	0.10	56.22	15.64
3	6.03	3.55	-0.176	0.190	-0.006	2.13	0.481	0.519	0.10	56.22	15.53
4	10.10	5.94	-0.219	0.054	0.010	2.14	0.481	0.519	0.10	56.43	15.64
5	15.09	8.88	-0.209	0.041	0.011	2.14	0.481	0.519	0.10	56.49	15.75
6	19.93	11.72	-0.174	-0.085	0.008	2.14	0.481	0.519	0.10	56.52	15.64
7	30.05	17.68	-0.175	-0.130	0.004	2.14	0.481	0.519	0.10	56.53	15.64
8	44.70	26.29	-0.191	-0.136	0.001	2.14	0.481	0.519	0.10	56.62	15.41

Run# 414.00

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.65	26.27	-0.352	0.014	0.004	2.00	0.481	0.519	0.15	50.31	34.91
2	30.15	17.74	-0.318	-0.004	0.003	2.00	0.481	0.519	0.15	50.26	35.48
3	20.05	11.79	-0.185	-0.122	-0.001	2.00	0.482	0.518	0.15	50.35	35.48
4	14.95	8.79	-0.130	-0.150	0.007	2.01	0.481	0.519	0.15	50.43	35.25
5	10.09	5.94	-0.142	0.119	0.008	2.01	0.482	0.518	0.15	50.45	35.25
6	5.96	3.51	-0.182	0.300	0.000	2.01	0.482	0.518	0.15	50.49	35.25
7	3.96	2.33	-0.225	0.682	-0.008	2.01	0.482	0.518	0.15	50.45	35.36
8	2.98	1.75	-0.633	0.293	-0.039	2.00	0.481	0.519	0.15	50.36	35.36

**TABLE A-24 -- Power on Force Data**  
**Configuration I -- Rear Jet Alone -- NPR=2**  
**Belt Stopped**

**Run# 424**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
3	45.08	37.57	-0.022	-0.048	0.002	2.03	0	1	0	25.98	0
4	30.31	25.26	-0.022	-0.029	0.010	2.03	0	1	0	26.07	0
5	20.00	16.66	-0.040	-0.062	0.002	2.03	0	1	0	26.14	0
6	15.07	12.56	-0.060	-0.063	0.006	2.04	0	1	0	26.18	0
7	10.05	8.37	-0.136	-0.173	0.005	2.04	0	1	0	26.24	0
8	5.99	4.99	-0.485	-0.391	-0.000	2.04	0	1	0	26.24	0
9	4.02	3.35	-0.860	-0.120	0.013	2.04	0	1	0	26.33	0
10	3.03	2.52	-0.842	-0.117	0.007	2.04	0	1	0	26.35	0

**Run# 425**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.03	2.53	-0.798	-0.153	0.010	2.04	0	1	0.02	26.47	0.68
2	4.03	3.36	-0.783	-0.128	0.011	2.04	0	1	0.02	26.51	0.79
3	5.98	4.98	-0.709	-0.700	0.011	2.05	0	1	0.02	26.54	0.68
4	9.98	8.31	-0.189	-0.496	0.006	2.05	0	1	0.02	26.62	0.68
5	15.04	12.53	-0.086	-0.290	-0.002	2.05	0	1	0.02	26.59	0.57
6	20.12	16.77	-0.060	-0.251	0.003	2.05	0	1	0.02	26.66	0.68
7	29.95	24.96	-0.052	-0.211	0.002	2.05	0	1	0.02	26.68	0.68
8	45.06	37.55	-0.060	-0.231	0.007	2.06	0	1	0.02	26.75	0.68

**Run# 426**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	45.06	37.55	-0.075	-0.193	0.009	2.06	0	1	0.04	26.93	2.61
2	30.19	25.16	-0.101	-0.246	0.013	2.06	0	1	0.04	26.94	2.49
3	20.11	16.75	-0.142	-0.302	0.011	2.06	0	1	0.04	26.94	2.49
4	15.12	12.60	-0.197	-0.472	0.006	2.07	0	1	0.04	26.95	2.49
5	9.94	8.28	-0.293	-0.832	0.002	2.07	0	1	0.04	26.98	2.61
6	6.00	5.00	-0.701	-0.521	0.029	2.07	0	1	0.04	27.01	2.49
7	3.93	3.28	-0.819	-0.130	0.014	2.07	0	1	0.04	27.02	2.49
8	2.97	2.47	-0.855	-0.157	0.013	2.07	0	1	0.04	27.04	2.61

**Run# 427**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.97	2.48	-0.851	-0.292	-0.004	2.02	0	1	0.06	25.87	5.67
2	4.03	3.36	-0.806	0.076	0.005	2.02	0	1	0.06	25.86	5.67
3	5.98	4.98	-0.552	-0.111	0.035	2.02	0	1	0.06	25.94	5.55
4	9.96	8.30	-0.336	-0.259	0.012	2.02	0	1	0.06	25.91	5.55
5	15.04	12.54	-0.209	-0.167	0.014	2.02	0	1	0.06	25.91	5.55
6	20.09	16.74	-0.129	-0.043	0.010	2.02	0	1	0.06	25.94	5.67
7	29.99	24.99	-0.094	-0.003	0.005	2.02	0	1	0.06	25.91	5.67
8	45.07	37.56	-0.103	-0.053	0.006	2.02	0	1	0.06	25.95	5.55

**TABLE A-24 -- Concluded**

Run# 428

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	45.07	37.56	-0.167	-0.115	0.005	2.03	0	1	0.08	26.05	10.09
2	30.16	25.13	-0.136	-0.034	0.003	2.03	0	1	0.08	26.05	10.20
3	20.10	16.75	-0.146	-0.029	0.015	2.03	0	1	0.08	26.11	10.09
4	14.96	12.46	-0.181	0.084	0.019	2.03	0	1	0.08	26.10	10.20
5	10.14	8.45	-0.288	0.331	0.025	2.03	0	1	0.08	26.11	10.09
6	6.09	5.08	-0.426	0.616	0.031	2.03	0	1	0.08	26.10	10.09
7	4.09	3.41	-0.832	0.987	0.017	2.03	0	1	0.08	26.13	10.09
8	3.06	2.55	-0.932	0.042	-0.018	2.03	0	1	0.08	26.09	10.09

Run# 429

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.05	2.54	-0.990	0.611	-0.008	2.04	0	1	0.10	26.27	15.53
2	4.00	3.33	-0.772	1.325	0.017	2.04	0	1	0.10	26.27	15.64
3	5.99	4.99	-0.378	1.288	0.028	2.04	0	1	0.10	26.27	15.53
4	9.91	8.26	-0.244	0.740	0.027	2.04	0	1	0.10	26.33	15.64
5	15.01	12.51	-0.185	0.200	0.025	2.04	0	1	0.10	26.36	15.64
6	19.94	16.61	-0.176	0.090	0.013	2.04	0	1	0.10	26.33	15.41
7	30.10	25.08	-0.232	-0.101	0.015	2.04	0	1	0.10	26.35	15.53
8	45.06	37.55	-0.234	-0.083	0.011	2.04	0	1	0.10	26.35	15.53

Run# 430

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	45.06	37.55	-0.257	0.815	0.026	2.08	0	1	0.15	26.78	35.02
3	30.12	25.10	-0.151	1.125	0.014	2.00	0	1	0.15	25.28	35.48
4	20.05	16.71	-0.126	0.923	0.024	2.01	0	1	0.15	25.38	35.48
5	15.04	12.53	-0.010	1.109	0.007	2.01	0	1	0.15	25.37	35.25
6	10.07	8.39	0.026	1.175	0.007	2.01	0	1	0.15	25.39	35.36
7	6.11	5.09	-0.086	2.495	0.009	2.01	0	1	0.15	25.43	35.14
8	4.07	3.39	-0.189	3.942	0.030	2.01	0	1	0.15	25.43	35.02
9	3.07	2.56	-0.685	4.225	0.016	2.01	0	1	0.15	25.44	35.25

**TABLE A-25 — Power on Force Data  
Configuration II — Both Jets — NPR=2  
Belt Stopped**

**Run# 435**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
26	45.61	26.83	-0.018	0.013	0.001	2.00	0.496	0.504	0	50.86	0
27	30.18	17.75	-0.028	0.022	0.003	2.00	0.496	0.504	0	50.93	0
28	19.96	11.74	-0.039	-0.012	-0.001	2.00	0.496	0.504	0	50.98	0
29	15.16	8.92	-0.065	-0.002	-0.003	2.01	0.496	0.504	0	51.07	0
30	9.92	5.84	-0.127	0.117	-0.002	2.01	0.496	0.504	0	51.21	0
31	5.96	3.51	-0.266	0.105	0.003	2.01	0.496	0.504	0	51.35	0
32	4.10	2.41	-0.459	-0.252	-0.002	2.01	0.496	0.504	0	51.35	0
33	3.07	1.81	-0.555	0.030	-0.004	2.01	0.496	0.504	0	51.36	0

**Run# 436**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.08	1.81	-0.506	0.023	-0.001	2.01	0.497	0.503	0.02	51.58	0.68
2	4.00	2.35	-0.399	-0.107	-0.003	2.01	0.497	0.503	0.02	51.64	0.68
3	6.06	3.57	-0.227	0.055	-0.002	2.01	0.498	0.502	0.02	51.74	0.68
4	10.07	5.92	-0.124	0.031	0.001	2.02	0.498	0.502	0.02	52.00	0.68
5	15.06	8.86	-0.085	-0.084	0.004	2.03	0.500	0.500	0.02	52.46	0.68
6	19.99	11.76	-0.062	-0.072	0.001	2.03	0.502	0.498	0.02	52.56	0.57
7	29.95	17.62	-0.046	-0.059	-0.001	2.03	0.502	0.498	0.02	52.62	0.68
8	44.89	26.40	-0.048	-0.061	0.001	2.04	0.503	0.497	0.02	52.72	0.68

**Run# 437**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.89	26.40	-0.070	-0.141	-0.000	2.04	0.503	0.497	0.04	52.89	2.49
2	30.09	17.70	-0.074	-0.126	0.000	2.04	0.502	0.498	0.04	53.00	2.61
3	20.08	11.81	-0.100	-0.160	0.001	2.04	0.502	0.498	0.04	52.96	2.61
4	14.97	8.80	-0.135	-0.241	0.000	2.04	0.503	0.497	0.04	53.00	2.61
5	9.96	5.86	-0.141	-0.247	0.003	2.05	0.503	0.497	0.04	53.14	2.61
6	6.05	3.56	-0.246	-0.092	0.001	2.05	0.503	0.497	0.04	53.22	2.61
7	4.04	2.37	-0.435	-0.158	0.000	2.05	0.502	0.498	0.04	53.28	2.61
8	3.09	1.82	-0.512	-0.046	0.002	2.05	0.502	0.498	0.04	53.30	2.49

**Run# 438**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.10	1.83	-0.513	-0.068	-0.001	2.05	0.503	0.497	0.06	53.40	5.67
2	3.99	2.35	-0.405	-0.191	0.001	2.06	0.502	0.498	0.06	53.57	5.67
3	5.99	3.52	-0.244	-0.253	0.002	2.06	0.502	0.498	0.06	53.66	5.67
4	10.08	5.93	-0.156	-0.307	0.003	2.06	0.502	0.498	0.06	53.72	5.55
5	14.91	8.77	-0.158	-0.183	0.004	2.06	0.502	0.498	0.06	53.75	5.67
6	20.09	11.82	-0.133	-0.142	0.007	2.07	0.502	0.498	0.06	53.88	5.55
7	30.03	17.67	-0.106	-0.134	0.004	2.01	0.503	0.497	0.06	51.35	5.67
8	44.87	26.40	-0.107	-0.143	0.006	2.01	0.502	0.498	0.06	51.46	5.55

**TABLE A-25 — Concluded**

**Run# 439**

<b>Point</b>	<b>h,in.</b>	<b>h/De</b>	<b>dL/T</b>	<b>dM/TDe</b>	<b>dD/T</b>	<b>NPR</b>	<b>Tf/T</b>	<b>Ta/T</b>	<b>Ve</b>	<b>T</b>	<b>Q</b>
1	44.87	26.40	-0.153	-0.156	0.004	2.02	0.502	0.498	0.08	51.77	10.20
2	30.07	17.69	-0.141	-0.146	0.004	2.02	0.502	0.498	0.08	51.72	10.09
3	19.92	11.72	-0.140	-0.119	0.005	2.02	0.502	0.498	0.08	51.73	10.09
4	14.98	8.81	-0.174	-0.126	0.010	2.02	0.502	0.498	0.08	51.89	10.09
5	9.95	5.85	-0.199	-0.240	0.006	2.02	0.502	0.498	0.08	51.78	10.09
6	6.06	3.56	-0.241	-0.157	0.001	2.02	0.502	0.498	0.08	51.88	10.20
7	3.93	2.31	-0.463	-0.264	-0.001	2.02	0.502	0.498	0.08	51.92	10.09
8	3.00	1.76	-0.586	-0.095	0.003	2.02	0.502	0.498	0.08	52.00	10.20

**Run# 440**

<b>Point</b>	<b>h,in.</b>	<b>h/De</b>	<b>dL/T</b>	<b>dM/TDe</b>	<b>dD/T</b>	<b>NPR</b>	<b>Tf/T</b>	<b>Ta/T</b>	<b>Ve</b>	<b>T</b>	<b>Q</b>
1	3.00	1.77	-0.566	0.070	0.002	2.03	0.501	0.499	0.10	52.23	15.64
2	4.00	2.36	-0.429	-0.262	-0.003	2.03	0.502	0.498	0.10	52.32	15.75
3	6.06	3.57	-0.220	-0.065	0.001	2.03	0.502	0.498	0.10	52.31	15.75
4	9.99	5.88	-0.200	-0.073	0.013	2.04	0.502	0.498	0.10	52.37	15.64
5	14.99	8.82	-0.177	-0.067	0.016	2.04	0.501	0.499	0.10	52.48	15.53
6	20.00	11.77	-0.162	-0.148	0.010	2.04	0.502	0.498	0.10	52.41	15.53
7	30.07	17.69	-0.173	-0.209	0.001	2.04	0.502	0.498	0.10	52.37	15.53
8	44.87	26.40	-0.187	-0.195	0.001	2.04	0.502	0.498	0.10	52.35	15.64

**Run# 441**

<b>Point</b>	<b>h,in.</b>	<b>h/De</b>	<b>dL/T</b>	<b>dM/TDe</b>	<b>dD/T</b>	<b>NPR</b>	<b>Tf/T</b>	<b>Ta/T</b>	<b>Ve</b>	<b>T</b>	<b>Q</b>
1	44.86	26.39	-0.301	-0.080	0.010	2.00	0.501	0.499	0.15	50.47	35.02
2	29.93	17.61	-0.280	-0.061	0.010	2.00	0.501	0.499	0.15	50.41	35.36
3	20.10	11.83	-0.177	-0.030	0.007	2.00	0.501	0.499	0.15	50.46	35.25
4	14.97	8.81	-0.078	-0.033	0.003	2.00	0.501	0.499	0.15	50.57	35.25
5	10.03	5.90	-0.081	0.094	0.011	2.01	0.502	0.498	0.15	50.60	35.36
6	5.98	3.52	-0.125	0.228	0.004	2.00	0.502	0.498	0.15	50.59	35.36
7	3.98	2.34	-0.259	0.397	0.008	2.00	0.502	0.498	0.15	50.56	35.36
8	3.07	1.81	-0.516	0.283	-0.021	2.00	0.502	0.498	0.15	50.58	35.59



**TABLE A-26 - Power on Force Data**  
**Configuration VI - Both Jets - NPR=2**  
**Belt Stopped**

**Run# 451**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
12	44.87	26.39	-0.034	0.022	-0.003	2.02	0.502	0.498	0	51.66	0
13	30.01	17.65	-0.047	0.019	0.003	2.03	0.502	0.498	0	51.93	0
14	15.00	8.83	-0.067	-0.035	-0.003	2.03	0.503	0.497	0	51.90	0
15	9.99	5.88	-0.116	0.045	-0.003	2.03	0.502	0.498	0	51.91	0
16	6.00	3.53	-0.189	0.070	-0.002	2.03	0.501	0.499	0	52.03	0
17	3.99	2.35	-0.272	-0.100	0.002	2.03	0.502	0.498	0	52.16	0
18	2.96	1.74	-0.450	-0.139	0.004	2.04	0.501	0.499	0	52.37	0

**Run# 452**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.96	1.74	-0.435	-0.137	0.005	2.03	0.501	0.499	0.02	52.52	0.68
2	3.97	2.34	-0.256	-0.114	0.007	2.04	0.501	0.499	0.02	52.64	0.68
3	5.96	3.50	-0.180	0.027	0.002	2.04	0.502	0.498	0.02	52.70	0.68
4	10.06	5.92	-0.130	-0.060	0.003	2.04	0.501	0.499	0.02	52.83	0.68
5	15.02	8.83	-0.109	-0.077	0.001	2.04	0.501	0.499	0.02	52.92	0.57
6	30.01	17.65	-0.076	-0.053	0.004	2.05	0.501	0.499	0.02	53.00	0.57
7	44.86	26.39	-0.061	-0.049	0.001	2.05	0.502	0.498	0.02	53.00	0.57

**Run# 453**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.85	26.38	-0.091	-0.101	-0.001	2.00	0.501	0.499	0.04	51.10	2.49
2	30.17	17.74	-0.116	-0.133	0.006	2.01	0.502	0.498	0.04	51.36	2.49
3	20.15	11.85	-0.143	-0.138	0.005	2.01	0.501	0.499	0.04	51.40	2.61
4	14.94	8.79	-0.174	-0.205	0.003	2.01	0.502	0.498	0.04	51.33	2.49
5	10.13	5.96	-0.198	-0.257	0.003	2.01	0.501	0.499	0.04	51.40	2.49
6	5.99	3.52	-0.209	-0.045	0.006	2.01	0.502	0.498	0.04	51.56	2.61
7	4.00	2.35	-0.325	-0.219	0.008	2.01	0.502	0.498	0.04	51.61	2.61
8	3.02	1.78	-0.463	-0.180	0.007	2.01	0.501	0.499	0.04	51.61	2.61

**Run# 454**

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.02	1.77	-0.487	-0.111	0.007	2.02	0.501	0.499	0.06	51.76	5.55
2	3.99	2.35	-0.316	-0.225	0.006	2.02	0.501	0.499	0.06	51.78	5.67
3	5.97	3.51	-0.224	-0.091	0.002	2.02	0.501	0.499	0.06	51.82	5.67
4	9.93	5.84	-0.233	-0.202	0.008	2.02	0.501	0.499	0.06	51.91	5.67
8	14.93	8.78	-0.222	-0.012	0.015	2.03	0.501	0.499	0.06	52.17	5.55
10	20.41	12.01	-0.194	0.019	0.012	2.03	0.501	0.499	0.06	52.17	5.67
13	30.09	17.70	-0.179	0.008	0.010	2.03	0.501	0.499	0.06	52.25	5.55
14	44.82	26.36	-0.192	0.008	0.011	2.03	0.500	0.500	0.06	52.39	5.67

**TABLE A-26 -- Concluded**

**Run# 455**

Point	h, in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.80	26.35	-0.260	0.090	0.017	2.00	0.500	0.500	0.08	50.94	10.09
2	30.11	17.71	-0.250	0.064	0.015	2.00	0.502	0.498	0.08	50.92	10.09
3	19.92	11.72	-0.242	0.099	0.021	2.00	0.501	0.499	0.08	50.97	9.97
4	14.99	8.82	-0.244	0.128	0.023	2.00	0.501	0.499	0.08	50.96	9.97
5	10.04	5.91	-0.258	0.035	0.017	2.00	0.500	0.500	0.08	51.01	9.97
6	5.99	3.52	-0.285	-0.135	-0.000	2.00	0.501	0.499	0.08	50.92	10.09
7	3.98	2.34	-0.356	-0.269	0.002	2.00	0.502	0.498	0.08	50.95	9.97
8	3.04	1.79	-0.521	-0.091	0.006	2.00	0.501	0.499	0.08	51.01	9.97

**Run# 460**

Point	h, in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	44.79	26.35	-0.299	0.143	0.019	2.02	0.500	0.500	0.10	51.60	15.53
2	30.13	17.72	-0.303	0.134	0.019	1.99	0.501	0.499	0.10	50.08	15.64
3	20.00	11.76	-0.280	0.167	0.023	2.00	0.501	0.499	0.10	50.90	15.75
4	14.98	8.81	-0.253	0.184	0.024	2.01	0.501	0.499	0.10	50.93	15.53
5	9.95	5.85	-0.251	0.227	0.027	2.01	0.501	0.499	0.10	50.91	15.64
6	6.01	3.53	-0.259	-0.096	0.004	2.01	0.500	0.500	0.10	51.00	15.64
7	3.91	2.30	-0.413	-0.317	-0.002	2.01	0.501	0.499	0.10	51.03	15.87
8	3.04	1.79	-0.574	0.045	-0.003	2.00	0.500	0.500	0.10	50.79	15.87

**Run# 461**

Point	h, in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	2.98	1.76	-0.934	1.530	-0.002	2.00	0.499	0.501	0.15	50.44	35.14
2	3.98	2.34	-0.543	0.268	-0.013	2.01	0.499	0.501	0.15	50.48	35.02
3	5.99	3.52	-0.111	0.418	0.012	2.01	0.501	0.499	0.15	50.72	35.14
4	10.12	5.95	-0.110	0.342	0.015	2.01	0.500	0.500	0.15	50.76	35.02
5	15.02	8.84	-0.228	0.368	0.018	2.01	0.501	0.499	0.15	50.80	35.25
6	19.96	11.74	-0.280	0.395	0.020	2.01	0.500	0.500	0.15	50.79	35.14
7	30.18	17.75	-0.315	0.440	0.025	2.01	0.500	0.500	0.15	50.67	35.25
8	44.77	26.34	-0.368	0.452	0.028	2.01	0.500	0.500	0.15	50.68	35.36

**TABLE A-27 -- Power on Force Data**  
**Configuration I -- Both Jets -- NPR=2**  
**Belt Running**

Run# 407 Belt Speed = 0											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
2	2.01	1.18	-0.700	0.190	-0.002	2.01	0.482	0.518	0	51.14	0
3	2.98	1.75	-0.343	-0.012	0.003	2.01	0.482	0.518	0	51.26	0
4	3.96	2.33	-0.270	0.183	0.002	2.01	0.482	0.518	0	51.34	0
5	5.99	3.52	-0.190	0.069	0.000	2.01	0.482	0.518	0	51.41	0
6	10.00	5.88	-0.152	0.078	0.002	2.02	0.482	0.518	0	51.54	0
7	15.08	8.87	-0.081	0.049	0.004	2.02	0.482	0.518	0	51.62	0
8	20.02	11.78	-0.046	0.049	0.005	2.02	0.482	0.518	0	51.68	0
9	30.05	17.68	-0.032	0.026	0.005	2.02	0.481	0.519	0	51.76	0
10	45.45	26.73	-0.024	-0.000	0.002	2.03	0.482	0.518	0	51.90	0

Run# 415 Belt Speed = 23 fps											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
3	3.05	1.79	-0.579	-0.065	-0.011	2.01	0.481	0.519	0	51.24	0
4	4.05	2.38	-0.386	0.202	-0.000	2.01	0.481	0.519	0	51.34	0
5	6.02	3.54	-0.230	0.117	-0.005	2.01	0.482	0.518	0	51.31	0
6	10.06	5.92	-0.147	0.163	-0.001	2.01	0.482	0.518	0	51.38	0
7	15.01	8.83	-0.079	0.205	0.001	2.01	0.482	0.518	0	51.36	0
8	20.08	11.81	-0.038	0.096	0.001	2.01	0.482	0.518	0	51.36	0
9	30.04	17.67	-0.023	0.037	-0.000	2.01	0.482	0.518	0	51.45	0

Run# 416 Belt Speed = 46 fps											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
4	30.02	17.66	-0.035	0.065	0.004	2.01	0.482	0.518	0	51.12	0
5	20.11	11.83	-0.057	0.077	0.007	2.01	0.483	0.517	0	51.24	0
6	15.02	8.84	-0.081	0.166	0.007	2.01	0.482	0.518	0	51.29	0
7	10.00	5.88	-0.150	0.212	0.005	2.01	0.482	0.518	0	51.35	0
8	6.01	3.53	-0.266	0.143	-0.000	2.01	0.482	0.518	0	51.33	0
9	3.91	2.30	-0.421	0.168	-0.000	2.01	0.483	0.517	0	51.43	0
10	3.09	1.82	-0.627	0.164	-0.002	2.02	0.482	0.518	0	51.52	0

Run# 417 Belt Speed = 69 fps											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	3.09	1.82	-0.635	0.351	0.002	2.02	0.482	0.518	0	51.66	0
2	4.16	2.45	-0.411	0.090	-0.001	2.02	0.483	0.517	0	51.66	0
3	5.97	3.51	-0.272	0.188	0.005	2.02	0.482	0.518	0	51.77	0
4	10.06	5.92	-0.147	0.135	0.007	2.02	0.483	0.517	0	51.81	0
5	15.10	8.88	-0.090	0.115	0.007	2.02	0.482	0.518	0	51.82	0
6	19.94	11.73	-0.065	0.053	0.008	2.02	0.483	0.517	0	51.84	0
7	30.08	17.70	-0.049	0.025	0.008	2.02	0.483	0.517	0	51.87	0

Run# 418 Belt Speed = 92 fps											
Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Ti/T	Ta/T	Ve	T	Q
1	29.99	17.64	-0.046	0.013	0.008	2.03	0.483	0.517	0	51.97	0
2	20.11	11.83	-0.054	0.023	0.007	2.03	0.483	0.517	0	51.93	0
3	14.99	8.82	-0.082	0.074	0.004	2.02	0.482	0.518	0	51.88	0
4	10.10	5.94	-0.156	0.086	0.005	2.03	0.483	0.517	0	52.00	0
5	6.09	3.58	-0.311	0.114	0.001	2.03	0.483	0.517	0	52.00	0
6	3.96	2.33	-0.481	0.061	-0.000	2.03	0.483	0.517	0	52.01	0
7	3.05	1.80	-0.674	0.279	-0.004	2.03	0.483	0.517	0	52.03	0

**TABLE A-28 - Power on Force Data**  
**Configuration I - Both Jets - NPR=2**  
**Belt Running at Tunnel Speed**

Run# 407 Belt Speed = 0

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	2.01	1.18	-0.700	0.190	-0.002	2.01	0.482	0.518	0	51.14	0
3	2.98	1.75	-0.343	-0.012	0.003	2.01	0.482	0.518	0	51.26	0
4	3.96	2.33	-0.270	0.183	0.002	2.01	0.482	0.518	0	51.34	0
5	5.99	3.52	-0.190	0.069	0.000	2.01	0.482	0.518	0	51.41	0
6	10.00	5.88	-0.152	0.078	0.002	2.02	0.482	0.518	0	51.54	0
7	15.08	8.87	-0.081	0.049	0.004	2.02	0.482	0.518	0	51.62	0
8	20.02	11.78	-0.046	0.049	0.005	2.02	0.482	0.518	0	51.68	0
9	30.05	17.68	-0.032	0.026	0.005	2.02	0.481	0.519	0	51.76	0
10	45.45	26.73	-0.024	-0.000	0.002	2.03	0.482	0.518	0	51.90	0

Run# 420 Belt Speed = 23 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	3.03	1.78	-0.594	-0.077	-0.006	2.01	0.498	0.502	0.02	51.70	0.68
3	3.98	2.34	-0.378	0.173	0.000	2.02	0.498	0.502	0.02	51.86	0.57
4	6.06	3.56	-0.230	0.084	-0.002	2.02	0.498	0.502	0.02	51.89	0.68
5	10.00	5.88	-0.156	-0.035	0.004	2.02	0.498	0.502	0.02	52.03	0.68
6	14.95	8.79	-0.086	0.039	0.003	2.02	0.498	0.502	0.02	52.06	0.68
7	19.99	11.76	-0.059	0.018	0.004	2.02	0.498	0.502	0.02	52.14	0.68
8	30.13	17.73	-0.058	0.013	0.005	2.02	0.498	0.502	0.02	52.22	0.79

Run# 421 Belt Speed = 46 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	29.77	17.51	-0.074	-0.044	0.002	2.03	0.498	0.502	0.04	52.43	2.49
2	19.98	11.76	-0.094	-0.046	0.001	2.03	0.498	0.502	0.04	52.58	2.49
3	15.07	8.86	-0.127	-0.056	0.003	2.04	0.498	0.502	0.04	52.73	2.61
4	9.99	5.88	-0.169	-0.117	-0.002	2.04	0.498	0.502	0.04	52.75	2.61
5	6.02	3.54	-0.259	0.037	-0.001	2.04	0.498	0.502	0.04	52.82	2.61
6	4.04	2.37	-0.422	0.081	-0.008	2.04	0.498	0.502	0.04	52.82	2.49
7	3.01	1.77	-0.677	-0.033	-0.010	2.05	0.497	0.503	0.04	53.03	2.61

Run# 422 Belt Speed = 69 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.01	1.77	-0.690	0.170	-0.013	2.05	0.497	0.503	0.06	53.21	5.67
2	4.00	2.36	-0.432	0.036	-0.007	2.05	0.498	0.502	0.06	53.30	5.67
3	6.03	3.55	-0.259	-0.049	-0.004	2.05	0.497	0.503	0.06	53.29	5.67
4	10.01	5.89	-0.203	-0.050	0.002	2.06	0.497	0.503	0.06	53.40	5.55
5	15.02	8.84	-0.147	0.008	0.001	2.06	0.497	0.503	0.06	53.41	5.67
6	20.06	11.80	-0.118	-0.000	0.003	2.06	0.497	0.503	0.06	53.51	5.67
7	30.03	17.66	-0.093	-0.061	0.001	2.06	0.497	0.503	0.06	53.56	5.55

Run# 423 Belt Speed = 92 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	30.02	17.66	-0.130	-0.048	0.000	2.07	0.497	0.503	0.08	53.92	10.09
2	20.01	11.77	-0.147	-0.001	0.004	2.07	0.497	0.503	0.08	53.95	10.09
3	15.01	8.83	-0.174	0.047	0.009	2.07	0.497	0.503	0.08	54.07	10.09
4	9.99	5.87	-0.211	0.088	0.004	2.07	0.497	0.503	0.08	54.03	10.09
5	6.03	3.55	-0.275	-0.052	-0.002	2.07	0.497	0.503	0.08	54.05	10.09
6	4.05	2.38	-0.429	0.128	-0.002	2.08	0.497	0.503	0.08	54.12	10.09
7	3.00	1.76	-0.668	0.363	-0.005	2.08	0.497	0.503	0.08	54.10	10.09

**TABLE A-29 — Power on Force Data**  
**Configuration I — Rear Jet Alone — NPR=2**  
**Belt Running at Tunnel Speed**

Run# 424 Belt Speed = 0

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
3	45.08	37.57	-0.022	-0.048	0.002	2.03	0	1	0	25.98	0
4	30.31	25.26	-0.022	-0.029	0.010	2.03	0	1	0	26.07	0.00
5	20.00	16.66	-0.040	-0.062	0.002	2.03	0	1	0	26.14	0.00
6	15.07	12.56	-0.060	-0.063	0.006	2.04	0	1	0	26.18	0.00
7	10.05	8.37	-0.136	-0.173	0.005	2.04	0	1	0	26.24	0.00
8	5.99	4.99	-0.485	-0.391	-0.000	2.04	0	1	0	26.24	0.00
9	4.02	3.35	-0.860	-0.120	0.013	2.04	0	1	0	26.33	0.00
10	3.03	2.52	-0.842	-0.117	0.007	2.04	0	1	0	26.35	0.00

Run# 431 Belt Speed = 23 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	30.18	25.15	-0.086	-0.198	0.009	1.95	0	1	0.02	24.63	0.68
2	19.99	16.66	-0.086	-0.227	0.005	1.96	0	1	0.02	24.64	0.68
3	15.09	12.58	-0.119	-0.331	0.008	1.96	0	1	0.02	24.64	0.68
4	10.04	8.37	-0.229	-0.482	0.013	2.01	0	1	0.02	25.87	0.68
5	6.07	5.06	-0.583	-0.912	0.003	2.01	0	1	0.02	25.83	0.68
6	4.06	3.38	-1.019	0.662	0.022	2.01	0	1	0.02	25.80	0.68
7	3.08	2.56	-1.151	0.535	0.021	2.01	0	1	0.02	25.84	0.68

Run# 432 Belt Speed = 46 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.08	2.57	-1.131	1.106	0.026	2.02	0	1	0.04	25.89	2.49
2	3.97	3.31	-0.874	0.937	0.030	2.01	0	1	0.04	25.86	2.61
6	5.98	4.99	-0.528	-0.599	0.015	2.02	0	1	0.04	25.90	2.49
7	9.98	8.31	-0.282	-0.498	-0.001	2.02	0	1	0.04	25.90	2.38
8	14.97	12.47	-0.186	-0.232	0.012	2.02	0	1	0.04	25.95	2.49
9	19.97	16.64	-0.118	-0.129	0.001	2.02	0	1	0.04	25.89	2.49
10	30.02	25.02	-0.084	-0.053	0.008	2.02	0	1	0.04	25.96	2.61

Run# 433 Belt Speed = 69 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	30.02	25.02	-0.118	-0.305	0.016	2.01	0	1	0.06	25.73	5.67
3	20.06	16.72	-0.123	-0.199	0.019	2.01	0	1	0.06	25.73	5.67
4	15.10	12.59	-0.163	-0.180	0.023	2.01	0	1	0.06	25.81	5.78
5	10.00	8.33	-0.274	-0.112	0.023	2.02	0	1	0.06	25.84	5.67
6	5.98	4.98	-0.458	-0.077	0.030	2.02	0	1	0.06	25.89	5.67
7	3.93	3.27	-0.642	0.645	0.056	2.02	0	1	0.06	25.97	5.78
8	3.04	2.53	-1.060	1.578	0.045	2.02	0	1	0.06	25.96	5.67

Run# 434 Belt Speed = 92 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.07	2.56	-0.799	2.118	0.049	2.03	0	1	0.08	26.06	10.20
2	3.95	3.29	-0.505	1.061	0.035	2.03	0	1	0.08	26.11	10.09
3	6.05	5.04	-0.392	0.526	0.026	2.03	0	1	0.08	26.14	10.20
4	9.96	8.30	-0.245	0.128	0.024	2.03	0	1	0.08	26.19	10.09
5	15.01	12.51	-0.165	-0.180	0.020	2.04	0	1	0.08	26.23	10.20
6	20.10	16.75	-0.129	-0.139	0.016	2.04	0	1	0.08	26.24	10.09
7	30.09	25.07	-0.159	-0.273	0.016	2.04	0	1	0.08	26.27	10.09

**TABLE A-30 — Power on Force Data**  
**Configuration II — Both Jets — NPR=2**  
**Belt Running at Tunnel Speed**

Run# 435 Belt Speed = 0

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
26	45.61	26.83	-0.018	0.013	0.001	2.00	0.496	0.504	0	50.86	0
27	30.18	17.75	-0.028	0.022	0.003	2.00	0.496	0.504	0	50.93	0
28	19.96	11.74	-0.039	-0.012	-0.001	2.00	0.496	0.504	0	50.98	0
29	15.16	8.92	-0.065	-0.002	-0.003	2.01	0.496	0.504	0	51.07	0
30	9.92	5.84	-0.127	0.117	-0.002	2.01	0.496	0.504	0	51.21	0
31	5.96	3.51	-0.266	0.105	0.003	2.01	0.496	0.504	0	51.35	0
32	4.10	2.41	-0.459	-0.252	-0.002	2.01	0.496	0.504	0	51.35	0
33	3.07	1.81	-0.555	0.030	-0.004	2.01	0.496	0.504	0	51.36	0

Run# 442 Belt Speed = 23 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	29.93	17.61	-0.053	-0.093	0.003	2.00	0.502	0.498	0.02	51.37	0.68
2	20.11	11.83	-0.057	-0.093	0.003	2.00	0.501	0.499	0.02	51.41	0.68
3	15.04	8.85	-0.077	-0.132	0.002	2.00	0.501	0.499	0.02	51.34	0.68
4	10.07	5.92	-0.141	-0.091	0.002	2.00	0.501	0.499	0.02	51.35	0.79
5	6.00	3.53	-0.274	-0.009	0.001	2.01	0.501	0.499	0.02	51.43	0.68
6	4.07	2.39	-0.502	-0.309	0.002	2.01	0.501	0.499	0.02	51.44	0.79
7	3.05	1.80	-0.732	-0.367	0.002	2.01	0.502	0.498	0.02	51.42	0.79

Run# 443 Belt Speed = 46 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	30.01	17.65	-0.073	-0.141	0.004	2.01	0.502	0.498	0.04	51.52	2.61
2	20.09	11.82	-0.085	-0.169	0.000	2.01	0.501	0.499	0.04	51.50	2.61
3	14.99	8.82	-0.125	-0.249	0.000	2.01	0.502	0.498	0.04	51.54	2.61
4	10.04	5.91	-0.160	-0.318	-0.001	2.01	0.502	0.498	0.04	51.48	2.61
5	5.93	3.49	-0.290	-0.100	-0.002	2.01	0.502	0.498	0.04	51.47	2.61
6	3.04	1.79	-0.812	-0.402	-0.002	2.01	0.502	0.498	0.04	51.55	2.49

Run# 444 Belt Speed = 69 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
2	30.95	18.21	-0.098	-0.054	0.002	2.03	0.503	0.497	0.06	52.21	5.67
3	20.01	11.77	-0.121	-0.068	0.005	2.03	0.504	0.496	0.06	52.42	5.55
4	15.04	8.85	-0.141	-0.077	0.006	2.03	0.504	0.496	0.06	52.48	5.55
5	10.03	5.90	-0.187	-0.188	0.001	2.04	0.504	0.496	0.06	52.65	5.55
6	6.01	3.54	-0.282	-0.159	0.002	2.04	0.504	0.496	0.06	52.74	5.55
7	4.04	2.38	-0.505	-0.295	0.002	2.04	0.504	0.496	0.06	52.79	5.55
8	3.03	1.78	-0.755	-0.381	0.005	2.04	0.504	0.496	0.06	52.91	5.55

Run# 445 Belt Speed = 92 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.05	1.80	-0.650	-0.188	0.015	2.06	0.504	0.496	0.08	53.33	10.09
2	4.04	2.38	-0.428	-0.123	0.005	2.06	0.504	0.496	0.08	53.37	10.09
3	5.99	3.53	-0.290	-0.240	0.004	2.00	0.503	0.497	0.08	50.96	9.97
4	10.03	5.90	-0.209	-0.110	0.009	2.00	0.504	0.496	0.08	51.05	10.20
5	15.03	8.84	-0.161	-0.044	0.005	2.00	0.503	0.497	0.08	51.01	10.09
6	20.07	11.80	-0.147	-0.083	0.005	2.00	0.504	0.496	0.08	51.11	9.97
7	30.02	17.66	-0.146	-0.109	0.005	2.01	0.504	0.496	0.08	51.19	9.97

**TABLE A-31 — Power on Force Data**  
**Configuration VI — Both Jets — NPR=2**  
**Belt Running at Tunnel Speed**

Run# 451 Belt Speed = 0

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
12	44.87	26.39	-0.034	0.022	-0.003	2.02	0.502	0.498	0	51.66	0
13	30.01	17.65	-0.047	0.019	0.003	2.03	0.502	0.498	0	51.93	0
14	15.00	8.83	-0.067	-0.035	-0.003	2.03	0.503	0.497	0	51.90	0
15	9.99	5.88	-0.116	0.045	-0.003	2.03	0.502	0.498	0	51.91	0
16	6.00	3.53	-0.189	0.070	-0.002	2.03	0.501	0.499	0	52.03	0
17	3.99	2.35	-0.272	-0.100	0.002	2.03	0.502	0.498	0	52.16	0
18	2.96	1.74	-0.450	-0.139	0.004	2.04	0.501	0.499	0	52.37	0

Run# 456 Belt Speed = 23 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	29.99	17.64	-0.078	-0.061	0.005	1.99	0.501	0.499	0.02	50.66	0.57
2	19.96	11.74	-0.104	-0.108	0.008	1.99	0.501	0.499	0.02	50.77	0.68
3	15.08	8.87	-0.126	-0.136	0.007	1.99	0.501	0.499	0.02	50.71	0.68
4	10.01	5.89	-0.157	-0.147	0.003	1.99	0.501	0.499	0.02	50.70	0.68
5	6.08	3.58	-0.209	0.043	0.006	1.99	0.501	0.499	0.02	50.68	0.68
6	4.05	2.38	-0.299	-0.122	0.005	1.99	0.501	0.499	0.02	50.67	0.68
7	3.05	1.80	-0.505	-0.308	0.006	1.99	0.501	0.499	0.02	50.72	0.68

Run# 457 Belt Speed = 46 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.05	1.79	-0.518	-0.348	0.007	2.00	0.501	0.499	0.04	50.80	2.49
2	4.03	2.37	-0.316	-0.141	0.004	2.00	0.501	0.499	0.04	50.83	2.61
3	6.03	3.54	-0.234	-0.084	0.002	1.99	0.501	0.499	0.04	50.77	2.61
4	10.01	5.89	-0.195	-0.279	0.000	2.00	0.501	0.499	0.04	50.79	2.61
5	14.97	8.80	-0.167	-0.171	0.007	2.00	0.500	0.500	0.04	50.91	2.61
6	20.05	11.80	-0.131	-0.130	0.005	2.00	0.501	0.499	0.04	50.89	2.49
7	30.06	17.68	-0.111	-0.162	0.005	2.00	0.501	0.499	0.04	50.91	2.61

Run# 458 Belt Speed = 69 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	30.04	17.67	-0.187	-0.008	0.012	2.00	0.501	0.499	0.06	51.09	5.55
2	20.03	11.78	-0.193	0.003	0.015	2.00	0.501	0.499	0.06	51.06	5.67
3	14.96	8.80	-0.205	0.023	0.016	2.00	0.501	0.499	0.06	51.12	5.67
4	10.04	5.91	-0.231	-0.132	0.010	2.00	0.500	0.500	0.06	51.06	5.67
5	6.01	3.54	-0.260	-0.158	0.001	2.00	0.501	0.499	0.06	51.02	5.55
6	3.99	2.35	-0.363	-0.264	-0.003	2.00	0.500	0.500	0.06	50.91	5.67
7	3.03	1.78	-0.503	-0.402	0.005	2.01	0.501	0.499	0.06	51.18	5.67

Run# 459 Belt Speed = 92 fps

Point	h,in.	h/De	dL/T	dM/TDe	dD/T	NPR	Tf/T	Ta/T	Ve	T	Q
1	3.05	1.79	-0.488	-0.466	-0.003	2.01	0.501	0.499	0.08	51.20	10.09
2	4.03	2.37	-0.385	-0.337	-0.003	2.01	0.501	0.499	0.08	51.21	10.20
3	6.01	3.54	-0.287	-0.179	0.007	2.01	0.501	0.499	0.08	51.36	10.20
4	9.99	5.88	-0.251	0.052	0.022	2.01	0.502	0.498	0.08	51.31	10.09
5	15.01	8.83	-0.222	0.127	0.019	2.01	0.501	0.499	0.08	51.33	10.09
6	19.92	11.72	-0.223	0.127	0.018	2.01	0.501	0.499	0.08	51.26	9.97
7	30.03	17.66	-0.251	0.045	0.015	2.01	0.501	0.499	0.08	51.32	9.97

**Table A-32 - Power off Coefficient Data  
Effect of Angle of Attack**

**Over Stopped Belt**

**Run# 401**

<b>Point</b>	<b>h,in.</b>	<b>ALPHA</b>	<b>CI</b>	<b>Cm</b>	<b>Cd</b>	<b>NPR</b>	<b>Q</b>
2	24.72	-5.06	-0.102	-0.030	0.037	1	29.70
3	24.69	-5.08	-0.131	-0.031	0.042	1	30.26
4	28.50	-4.00	-0.080	-0.030	0.034	1	30.04
5	35.62	-1.99	-0.001	-0.030	0.027	1	30.26
6	42.76	0.00	0.071	-0.029	0.027	1	30.04
7	41.27	2.00	0.140	-0.031	0.029	1	30.26
8	48.68	4.03	0.213	-0.033	0.036	1	30.26
9	39.59	5.00	0.251	-0.036	0.042	1	30.38
10	43.62	6.08	0.302	-0.039	0.050	1	30.26
11	39.65	8.00	0.393	-0.044	0.071	1	30.15
12	47.16	9.99	0.475	-0.046	0.097	1	30.26

**Over Fixed Ground Board**

**Run# 530**

<b>Point</b>	<b>h,in.</b>	<b>ALPHA</b>	<b>CI</b>	<b>Cm</b>	<b>Cd</b>	<b>NPR</b>	<b>Q</b>
1	44.22	-0.07	0.070	-0.030	0.024	1	29.81
2	52.06	2.11	0.133	-0.028	0.026	1	29.92
3	59.19	4.07	0.190	-0.027	0.035	1	30.15
4	66.04	5.96	0.272	-0.029	0.046	1	29.81
5	73.51	8.00	0.348	-0.033	0.062	1	30.04
6	80.85	10.01	0.412	-0.033	0.087	1	29.92
7	87.58	11.86	0.510	-0.035	0.116	1	29.81



**Table A-33 -- Power off Coefficient Data  
Effect of Height at Selected Angles of Attack  
Over Stopped Belt**

**Angle of Attack = -5 degrees**

**Run# 403**

Point	h,in.	ALPHA	CI	Cm	Cd	NPR	Q
1	6.02	-5.02	-0.109	0.043	0.061	1	30.38
2	10.01	-5.03	-0.080	-0.014	0.043	1	30.26
3	14.98	-5.05	-0.084	-0.026	0.040	1	30.26
4	20.06	-5.07	-0.129	-0.031	0.040	1	30.26
5	27.32	-5.07	-0.121	-0.030	0.038	1	30.26

**Angle of Attack = 0 degrees**

**Run# 402**

Point	h,in.	ALPHA	CI	Cm	Cd	NPR	Q
1	2.05	-0.00	0.056	-0.011	0.028	1	30.26
2	2.98	-0.01	0.051	-0.019	0.027	1	30.26
3	3.99	-0.01	0.061	-0.025	0.027	1	30.26
4	7.00	-0.01	0.068	-0.030	0.026	1	30.15
5	10.00	-0.02	0.064	-0.031	0.027	1	30.49
6	15.08	-0.01	0.076	-0.030	0.025	1	30.49
7	20.09	-0.02	0.065	-0.031	0.028	1	30.38
8	29.97	-0.02	0.068	-0.030	0.026	1	30.38

**Angle of Attack = 5 degrees**

**Run# 404**

Point	h,in.	ALPHA	CI	Cm	Cd	NPR	Q
1	2.01	5.02	0.290	-0.038	0.046	1	30.26
2	3.02	5.02	0.289	-0.037	0.044	1	30.38
3	3.99	5.02	0.281	-0.037	0.045	1	30.38
4	5.98	5.01	0.277	-0.038	0.043	1	30.49
5	10.04	5.01	0.268	-0.037	0.044	1	30.38
6	15.07	5.01	0.262	-0.037	0.043	1	30.49
7	20.00	5.00	0.249	-0.037	0.044	1	30.38
8	31.00	5.00	0.254	-0.036	0.043	1	30.38

**Table A-34 — Power off Coefficient Data**  
**Effect of Height at Several Tunnel Dynamic Pressures**

**Over Fixed Ground Board**

**Run# 528**

Point	h,in.	Cl	Cm	Cd	NPR	Q	ALPHA
11	44.20	0.068	-0.026	0.018	1	10.20	-0.05
12	29.97	0.056	-0.028	0.023	1	10.20	-0.05
13	20.06	0.047	-0.028	0.028	1	10.31	-0.05
14	15.08	0.063	-0.028	0.021	1	10.09	-0.04
15	10.06	0.062	-0.028	0.024	1	10.20	-0.04
16	6.02	0.049	-0.028	0.029	1	10.20	-0.05
17	3.96	0.051	-0.026	0.027	1	10.20	-0.04
18	4.00	0.064	-0.025	0.023	1	10.31	-0.04
19	2.03	0.054	-0.023	0.027	1	10.09	-0.04

**Run# 529**

Point	h,in.	Cl	Cm	Cd	NPR	Q	ALPHA
1	2.04	0.051	-0.025	0.025	1	30.38	-0.05
2	3.05	0.057	-0.026	0.024	1	30.15	-0.05
3	4.02	0.054	-0.027	0.024	1	30.04	-0.05
4	6.01	0.072	-0.030	0.023	1	30.04	-0.05
5	10.14	0.063	-0.030	0.023	1	30.26	-0.05
6	15.03	0.064	-0.030	0.024	1	30.04	-0.05
7	19.95	0.065	-0.029	0.023	1	30.04	-0.05
8	30.18	0.072	-0.030	0.022	1	30.15	-0.06
9	44.22	0.068	-0.030	0.023	1	30.04	-0.06

**Run# 531**

Point	h,in.	Cl	Cm	Cd	NPR	Q	ALPHA
1	44.58	0.070	-0.030	0.023	1	60.41	0.01
2	30.07	0.058	-0.030	0.025	1	60.18	0.01
3	20.06	0.062	-0.031	0.025	1	60.18	0.01
4	15.12	0.053	-0.030	0.026	1	60.86	-0.01
5	10.05	0.073	-0.031	0.024	1	60.18	0.01

**Table A-34 — Concluded.**

**Over Stopped Belt**

**Run# 446**

Point	h,in.	Cl	Cm	Cd	NPR	Q	ALPHA
1	45.38	0.051	-0.031	0.031	1	9.86	-0.00
2	30.09	0.066	-0.030	0.024	1	10.09	0.01
3	20.05	0.058	-0.031	0.025	1	10.20	0.01
4	15.02	0.053	-0.031	0.030	1	10.20	0.01
5	10.05	0.050	-0.031	0.026	1	10.09	0.01
6	6.02	0.046	-0.031	0.030	1	10.09	0.01
7	4.04	0.051	-0.028	0.033	1	10.09	0.01
8	2.99	0.054	-0.027	0.027	1	10.09	0.01

**Run# 447**

Point	h,in.	Cl	Cm	Cd	NPR	Q	ALPHA
1	2.99	0.050	-0.026	0.029	1	15.64	0.01
2	4.08	0.062	-0.028	0.027	1	15.64	0.01
3	6.01	0.055	-0.029	0.029	1	15.64	0.01
4	10.02	0.062	-0.029	0.027	1	15.64	0.01
5	15.00	0.056	-0.030	0.027	1	15.64	0.01
6	20.10	0.062	-0.029	0.026	1	15.53	0.00
7	30.09	0.057	-0.031	0.025	1	15.64	0.00
8	45.38	0.056	-0.029	0.028	1	15.64	-0.01

**Run# 448**

Point	h,in.	Cl	Cm	Cd	NPR	Q	ALPHA
1	45.40	0.086	-0.030	0.025	1	35.02	-0.00
2	30.04	0.115	-0.032	0.024	1	35.14	0.02
3	20.07	0.120	-0.034	0.022	1	35.36	0.02
4	15.06	0.125	-0.033	0.021	1	35.59	0.03
5	10.04	0.101	-0.034	0.020	1	35.36	0.01
6	6.00	0.088	-0.032	0.020	1	35.36	0.01

# CONFIGURATION I – Both Jets – NPR = 2

TABLE A-1

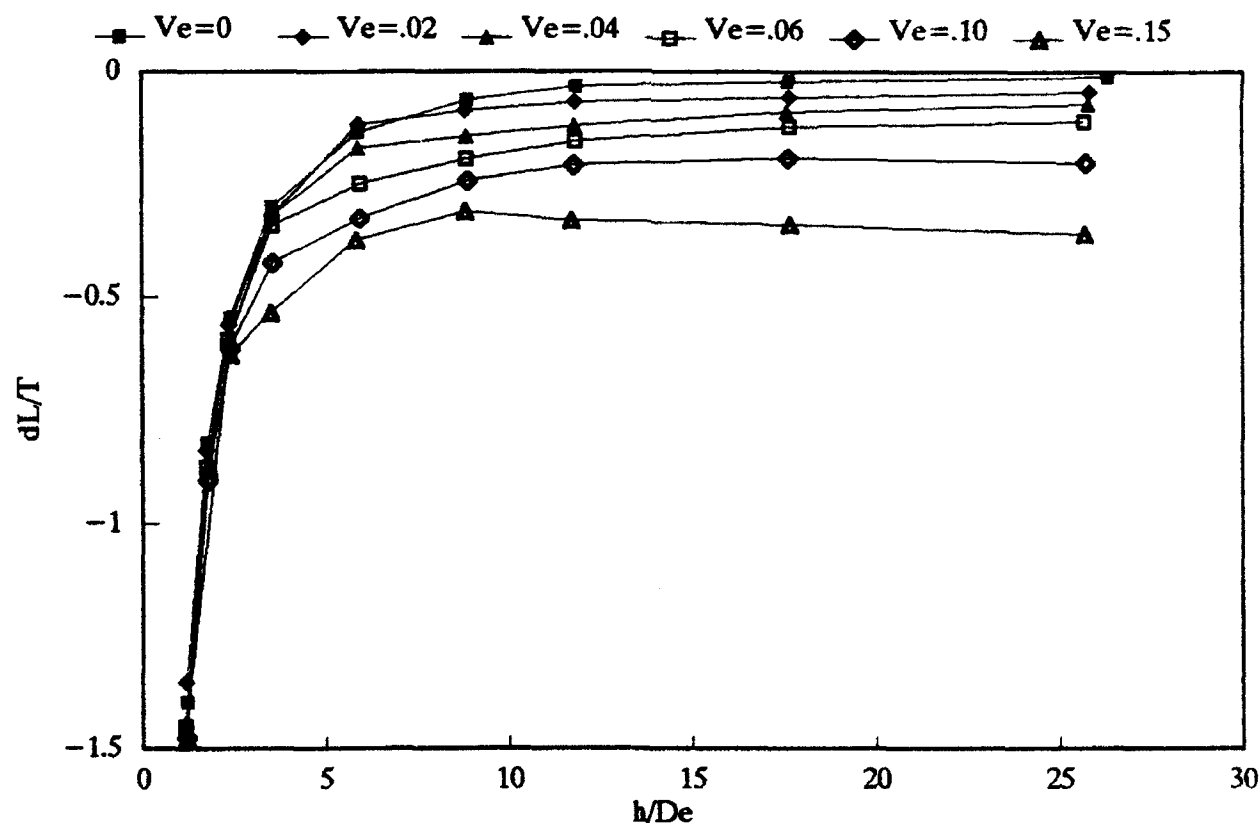
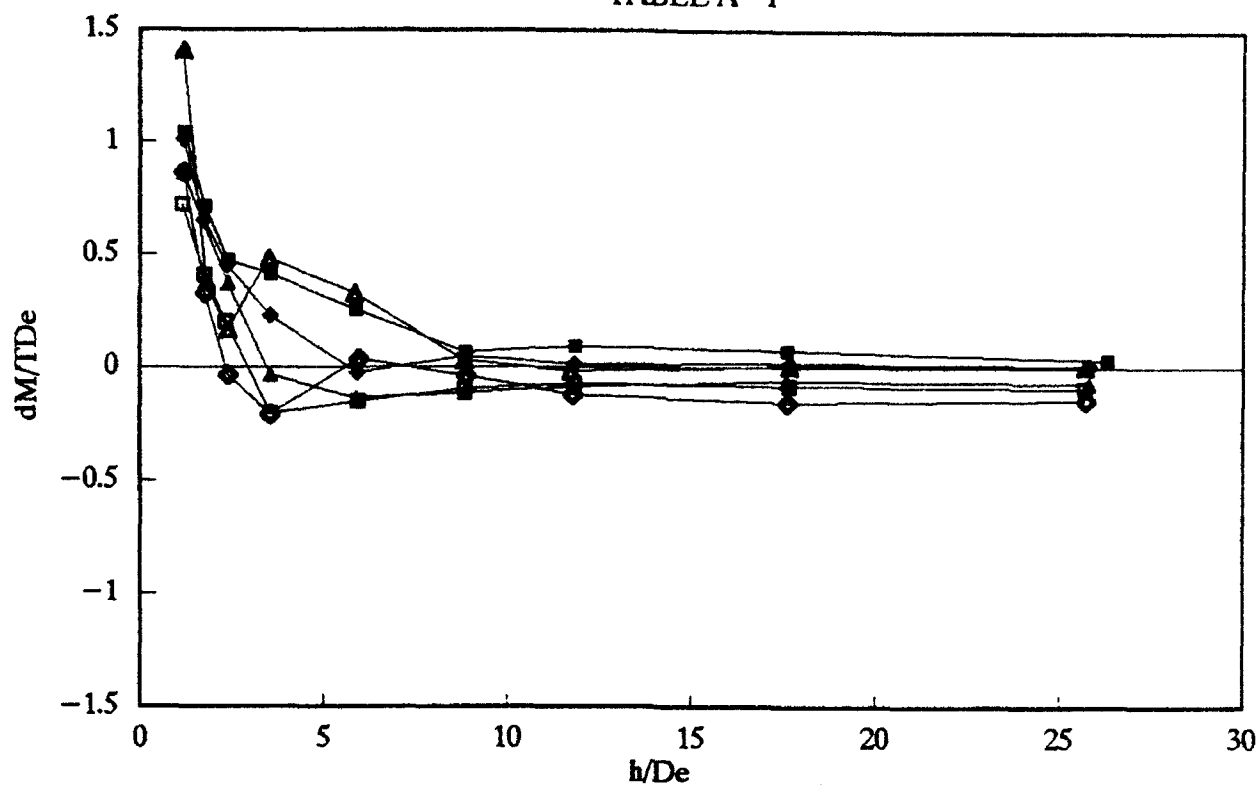


Figure A-1.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration I - Both jets - NPR = 2;  
Fixed ground board.

# CONFIGURATION I -- Both Jets -- NPR = 4

TABLE A-2

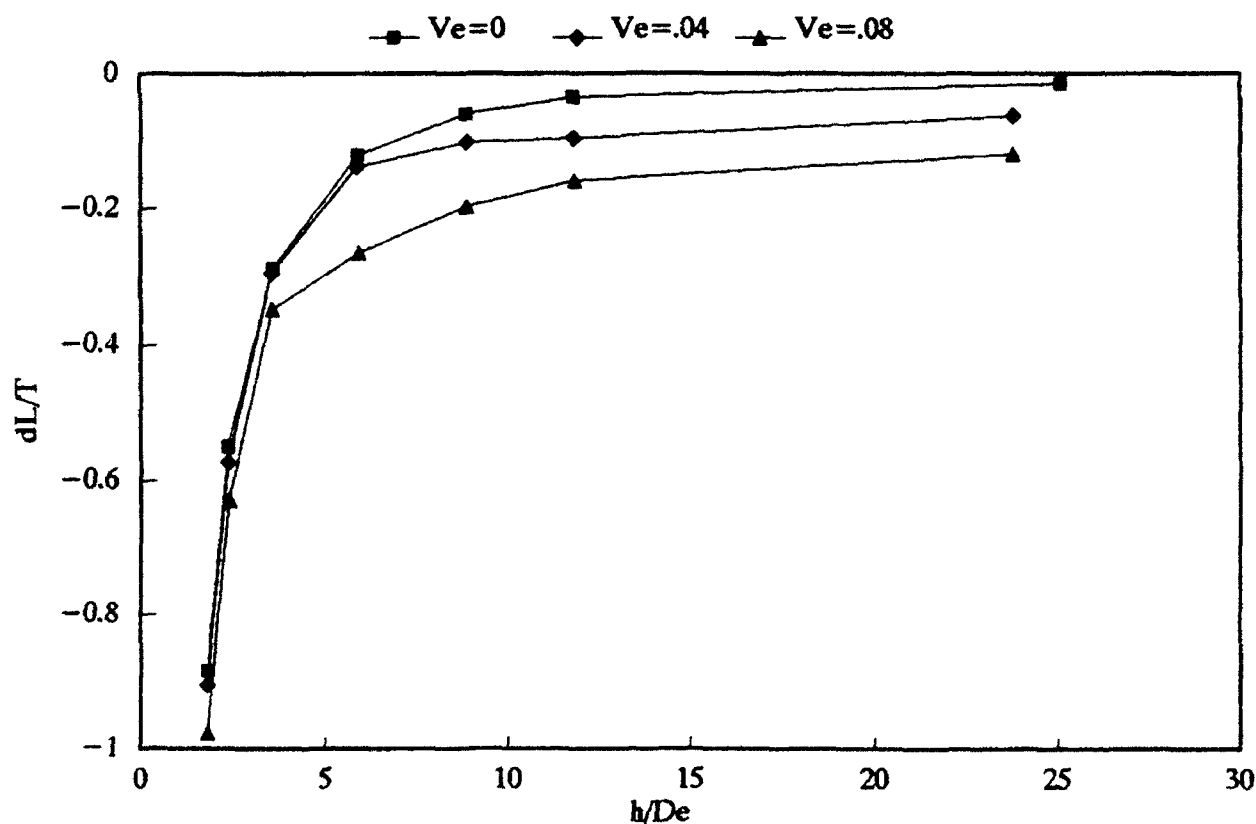
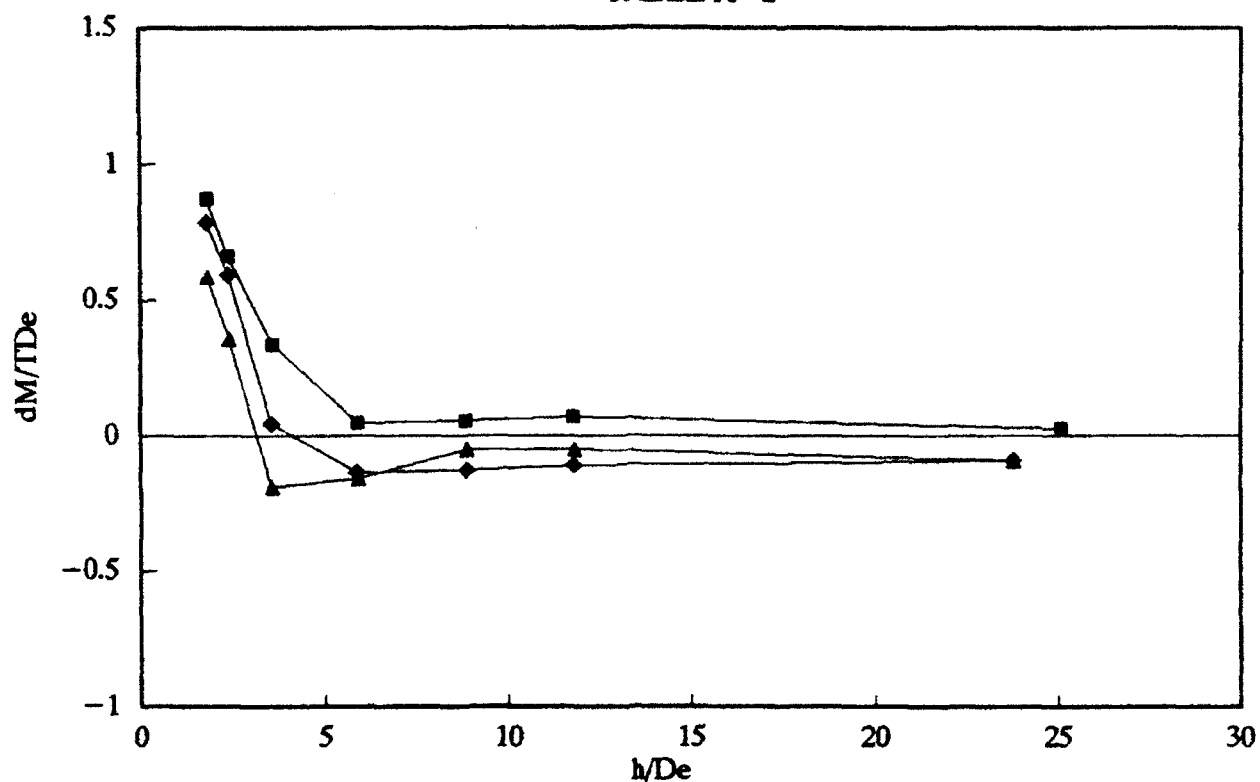


Figure A-2.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration I - Both jets - NPR = 4; Fixed ground board.

# CONFIGURATION I – Both Jets – NPR = 6

TABLE A-3

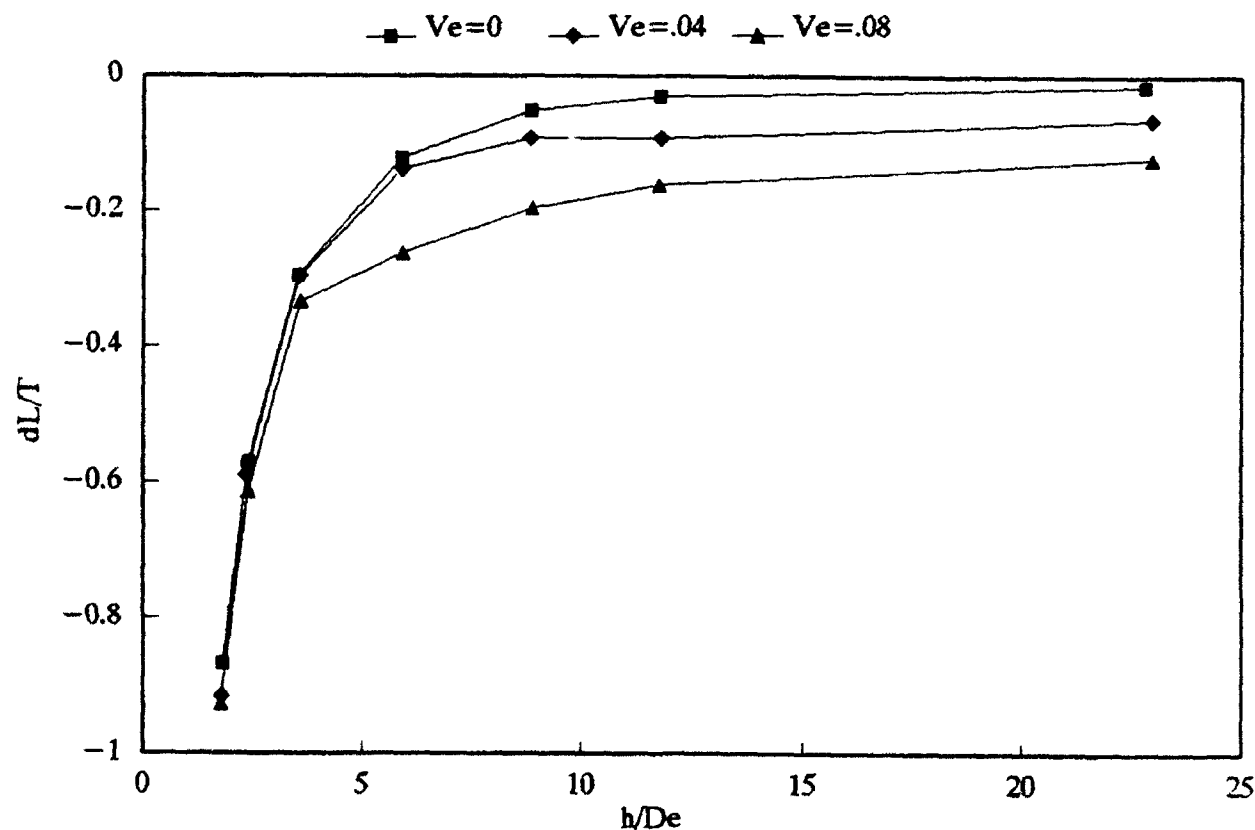
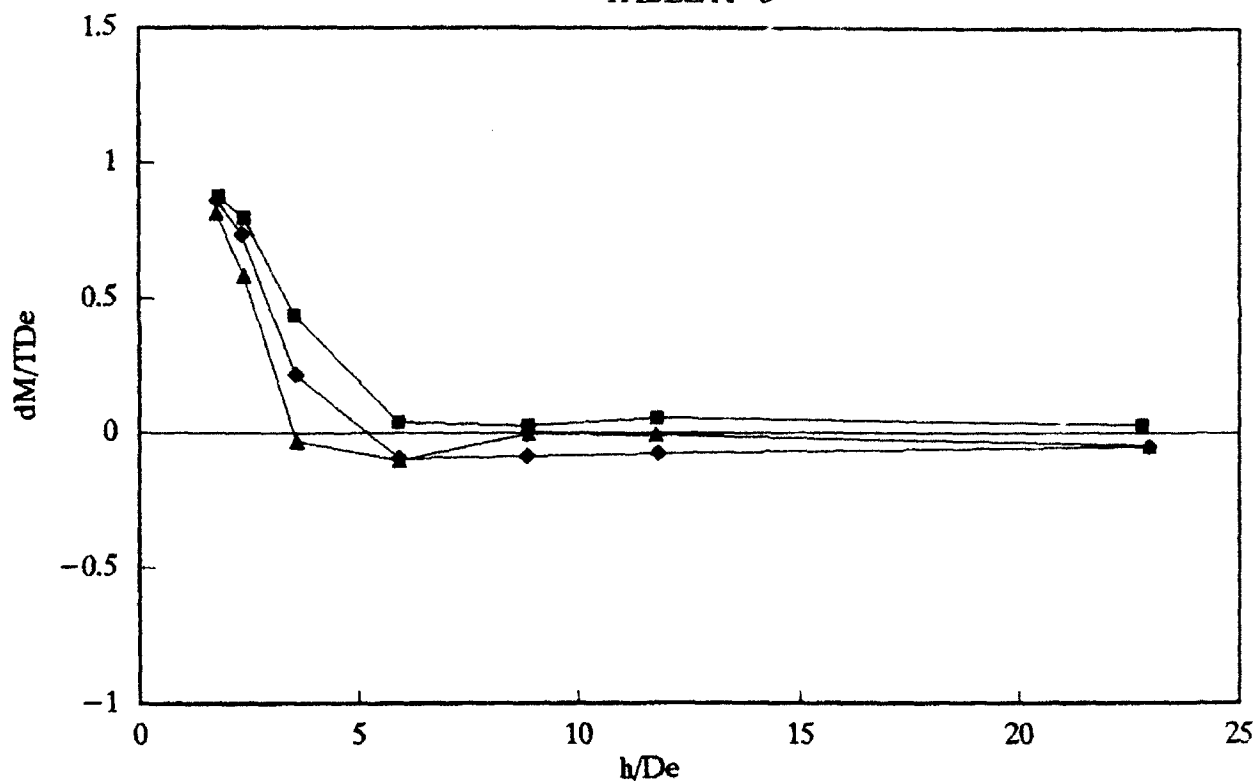


Figure A-3.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration I - Both jets - NPR = 6; Fixed ground board.

# CONFIG. I - Rear Jet Alone - NPR = 2

TABLE A-4

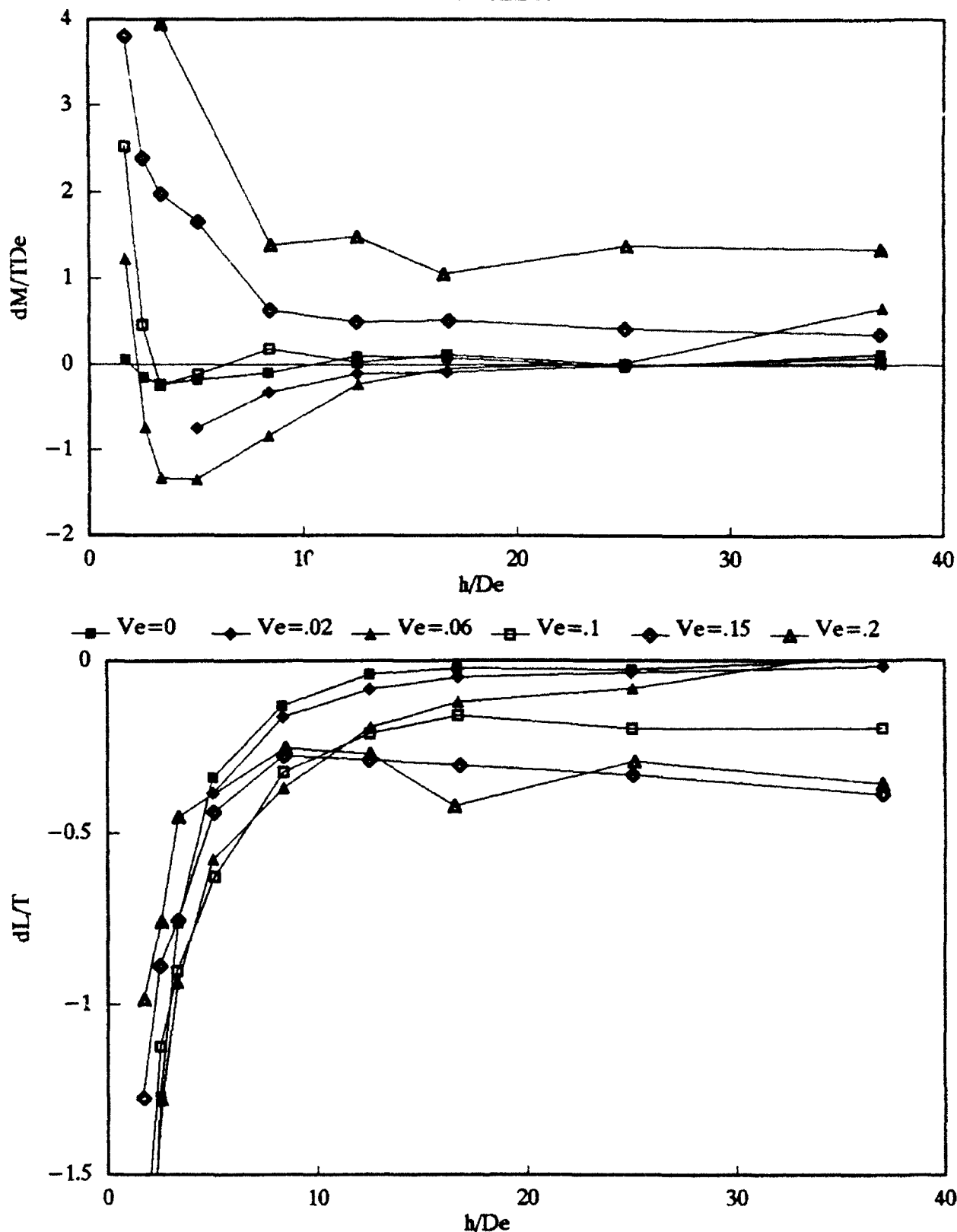


Figure A-4.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration I - Rear jet alone - NPR = 2; Fixed ground board.

CONFIGURATION I - Rear Jet Alone - NPR = 4  
TABLE A-5

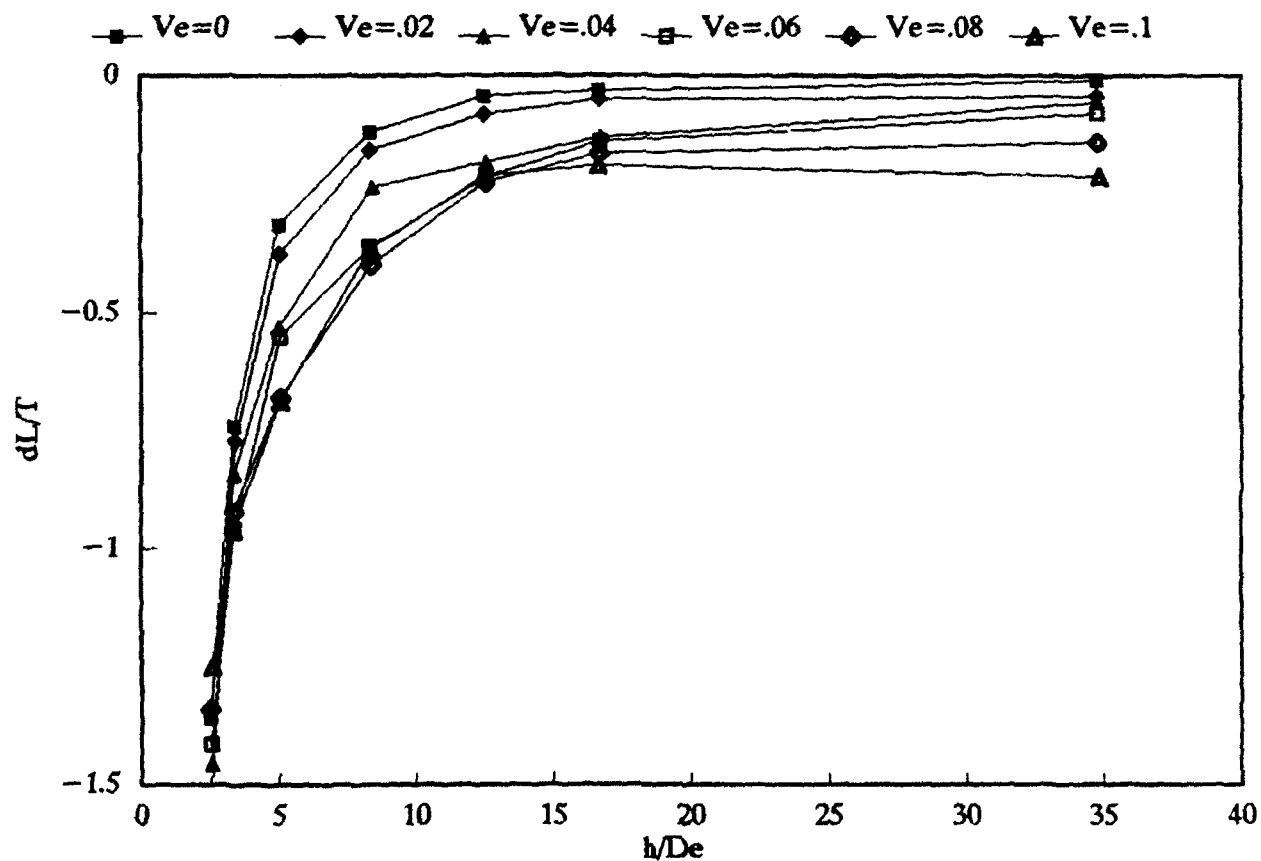
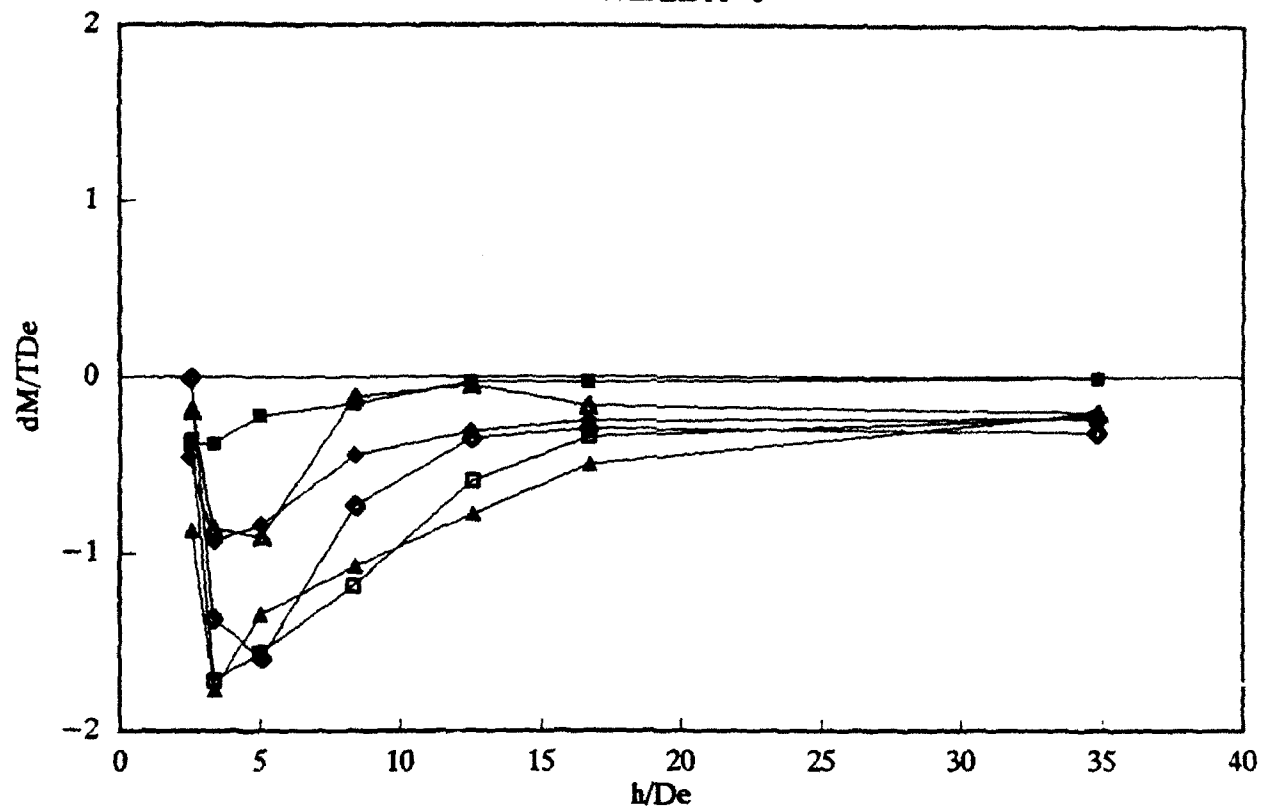


Figure A-5.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration I - Rear jet alone - NPR = 4; Fixed ground board.



CONFIGURATION I - Rear Jet Alone - NPR = 6  
TABLE A-6

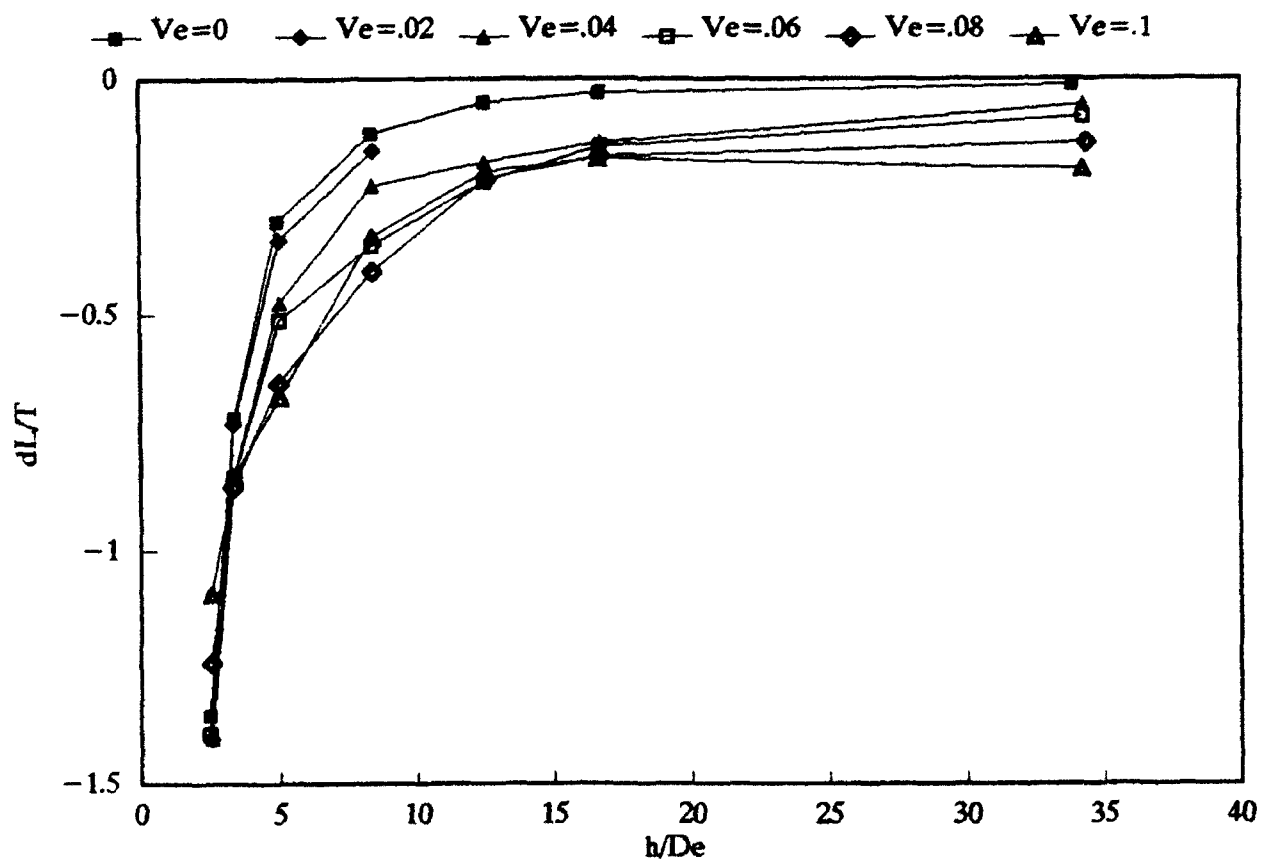
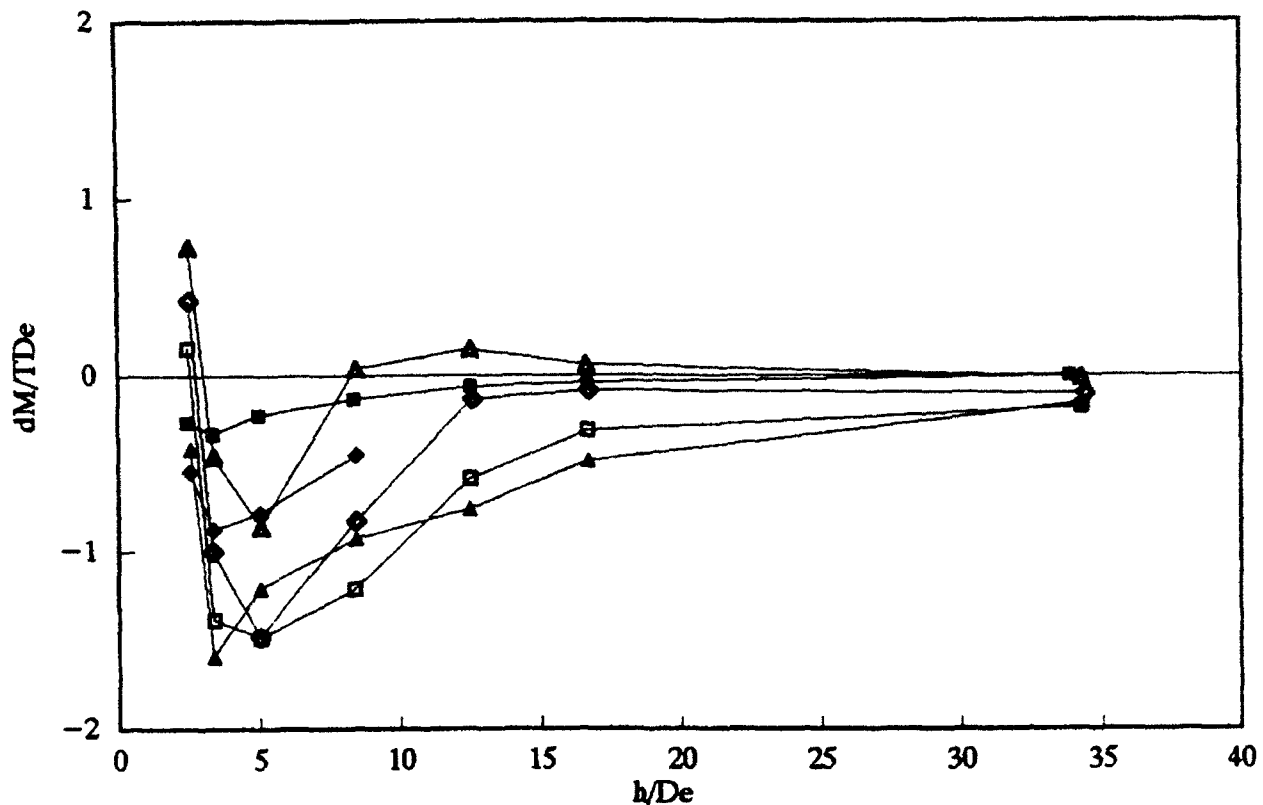


Figure A-6.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration I - Rear jet alone - NPR = 6; Fixed ground board.

# CONFIGURATION II - Both Jets - NPR = 2

TABLE A-7

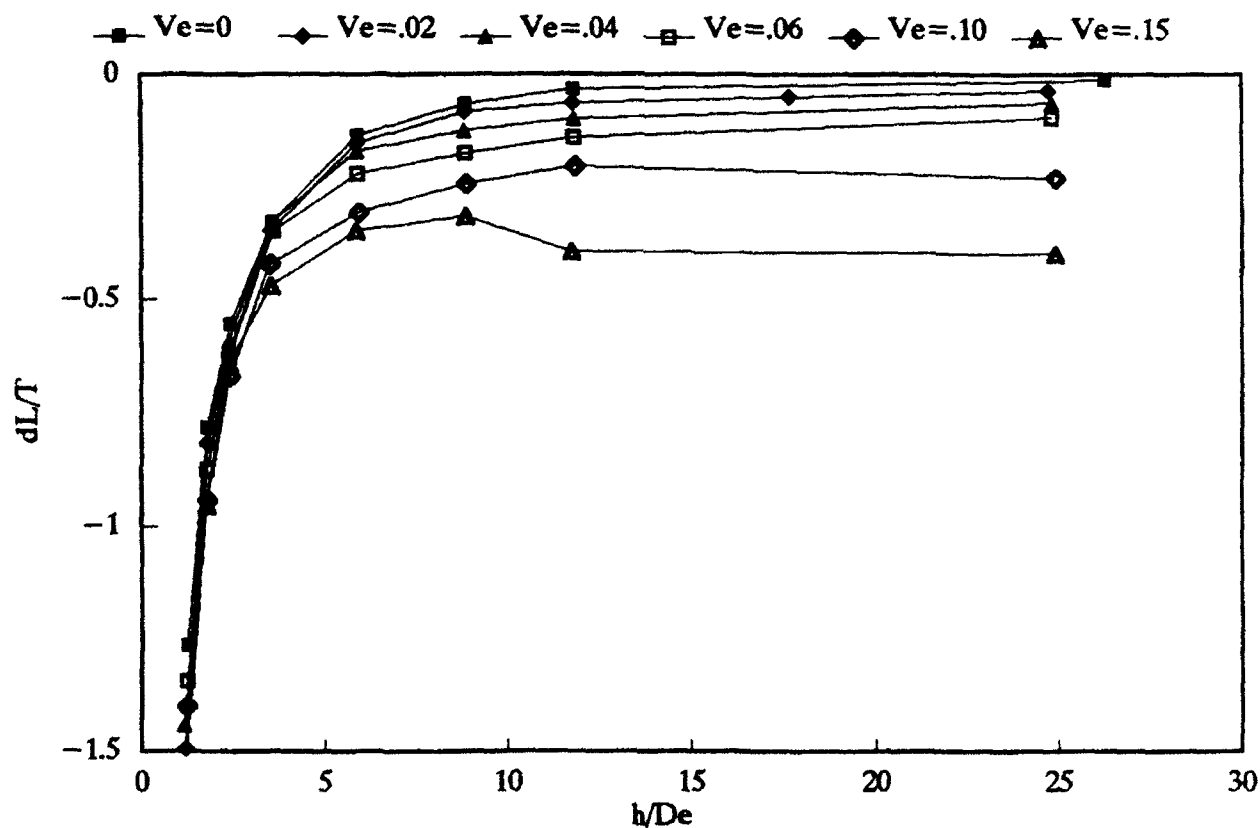
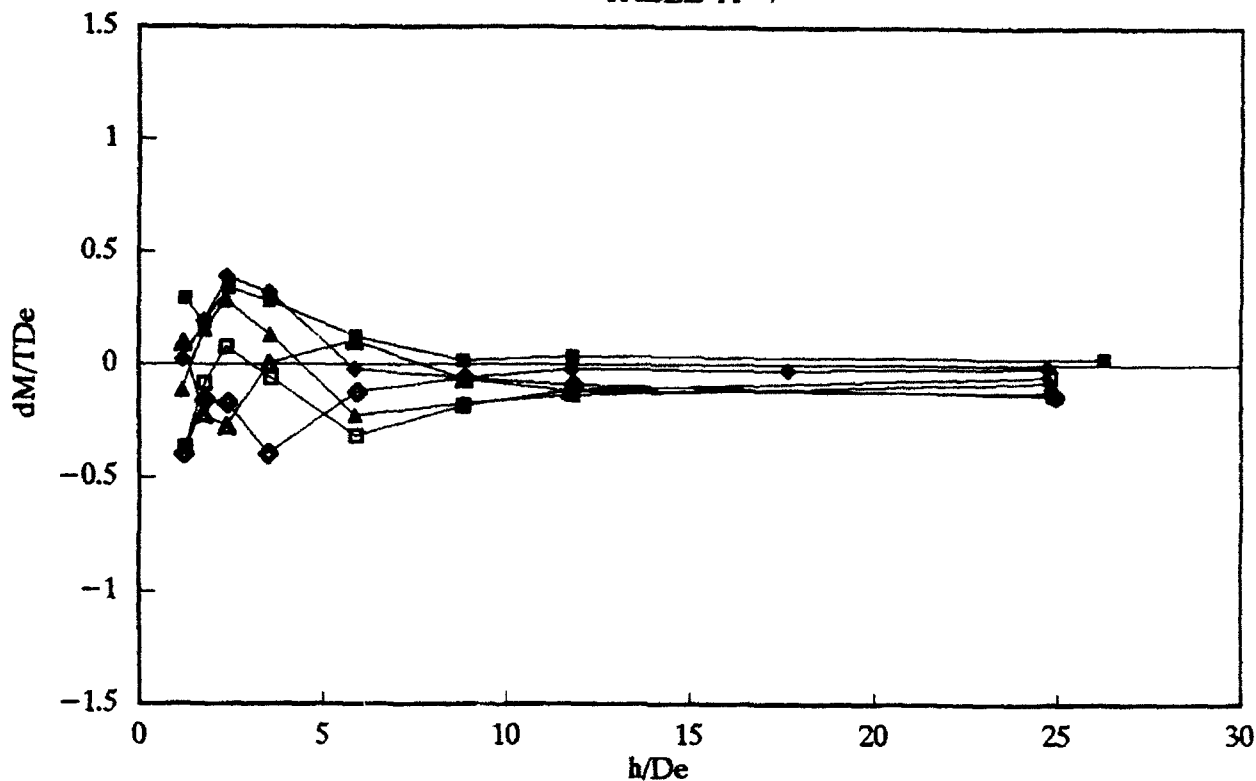


Figure A-7.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration II - Both jets - NPR = 2; Fixed ground board.

# CONFIGURATION II - Both Jets - NPR = 4

TABLE A-8

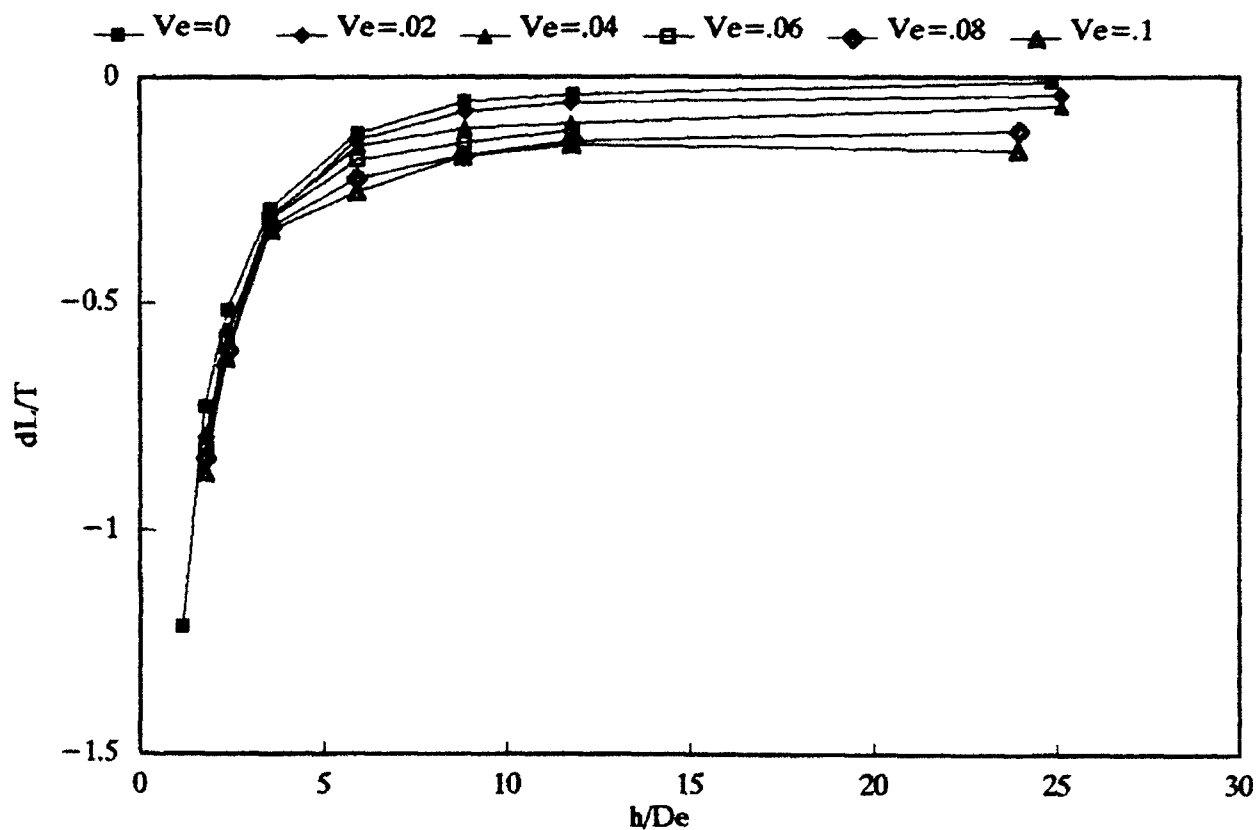
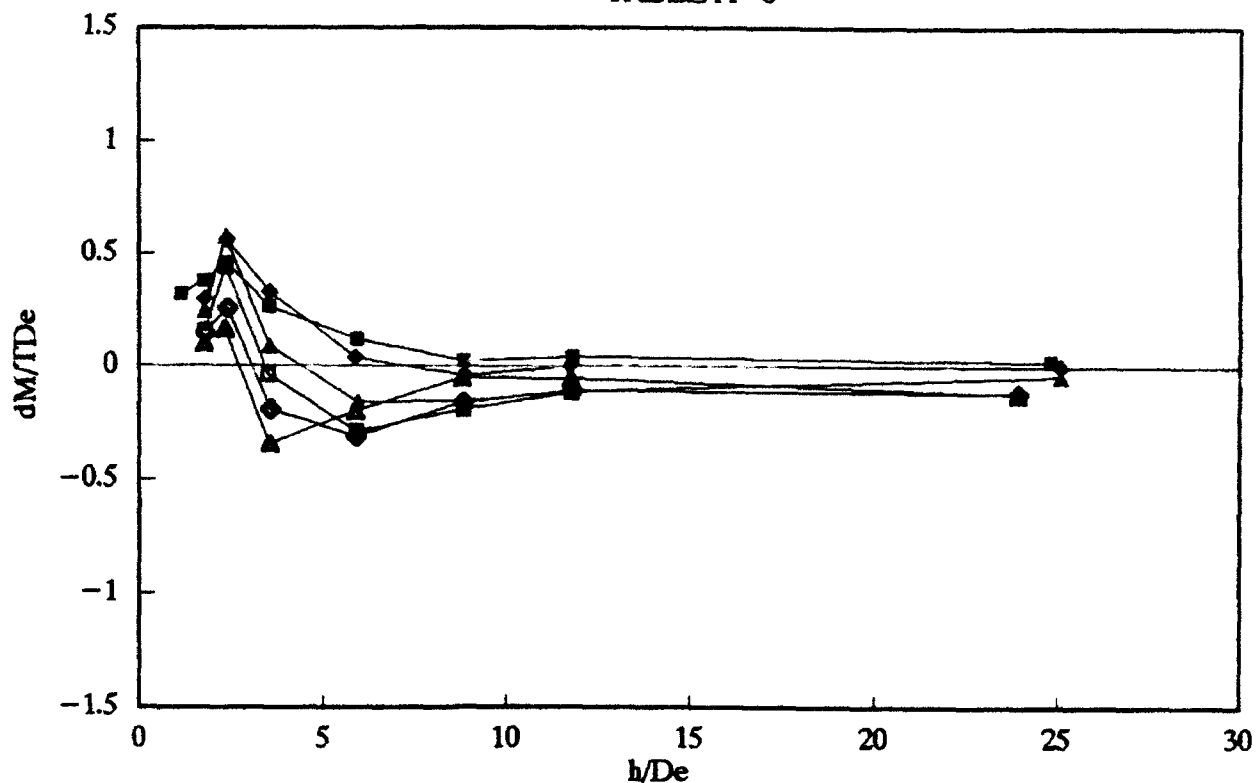


Figure A-8.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration II - Both jets - NPR = 4; Fixed ground board.

# CONFIGURATION II - Both Jets - NPR = 6

TABLE A-9

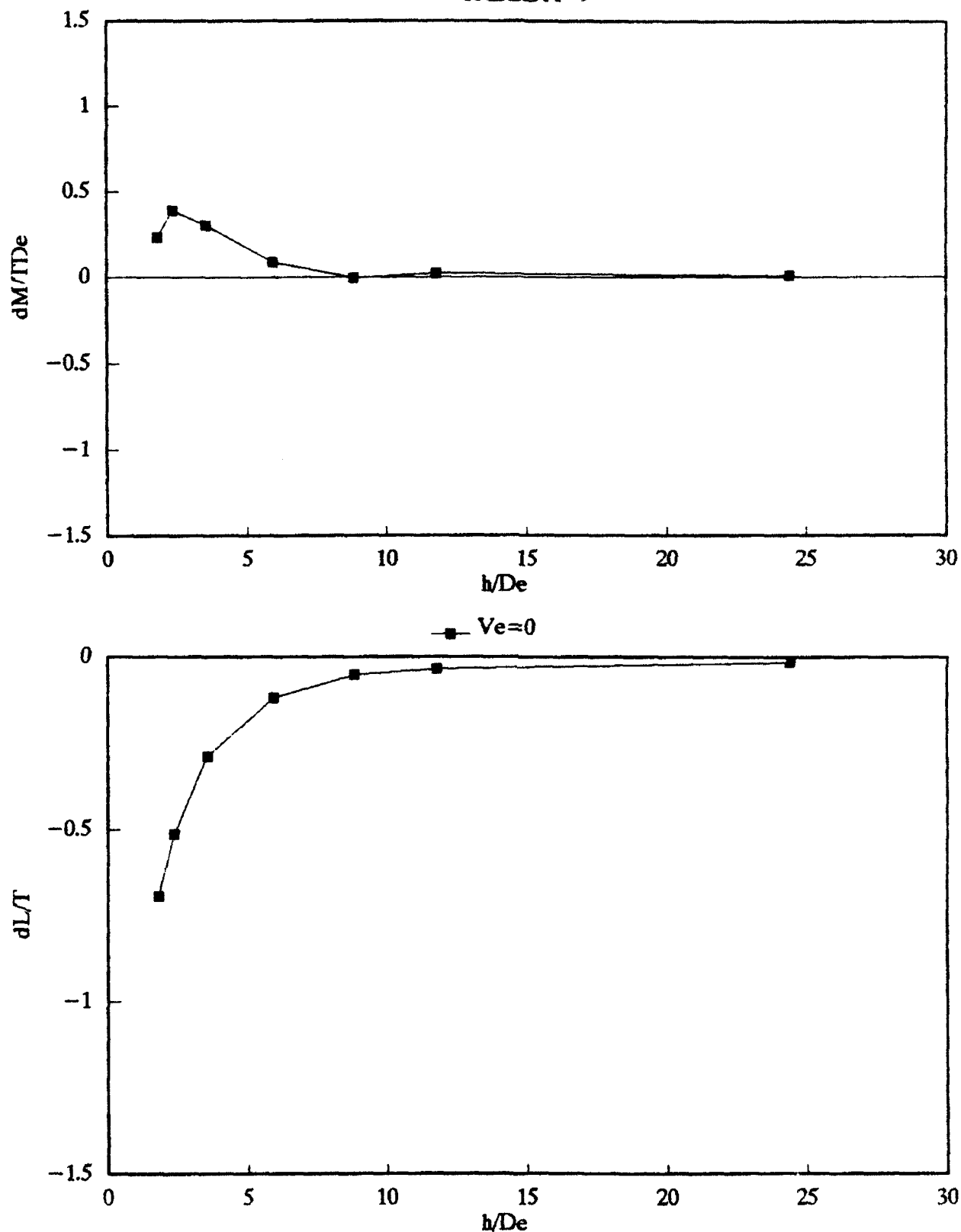


Figure A-9.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration II - Both jets - NPR = 6; Fixed ground board.

# CONF. II - Front Jet Alone - NPR = 2

TABLE A-10

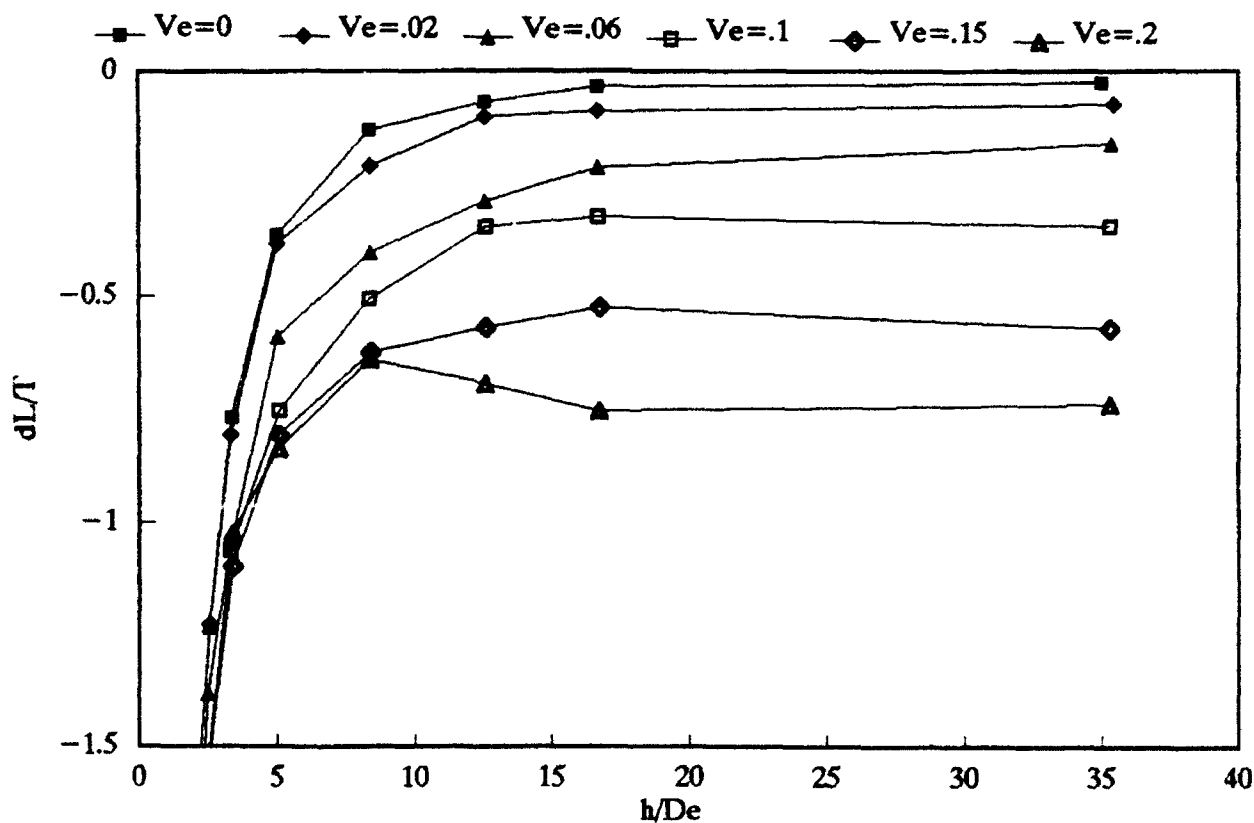
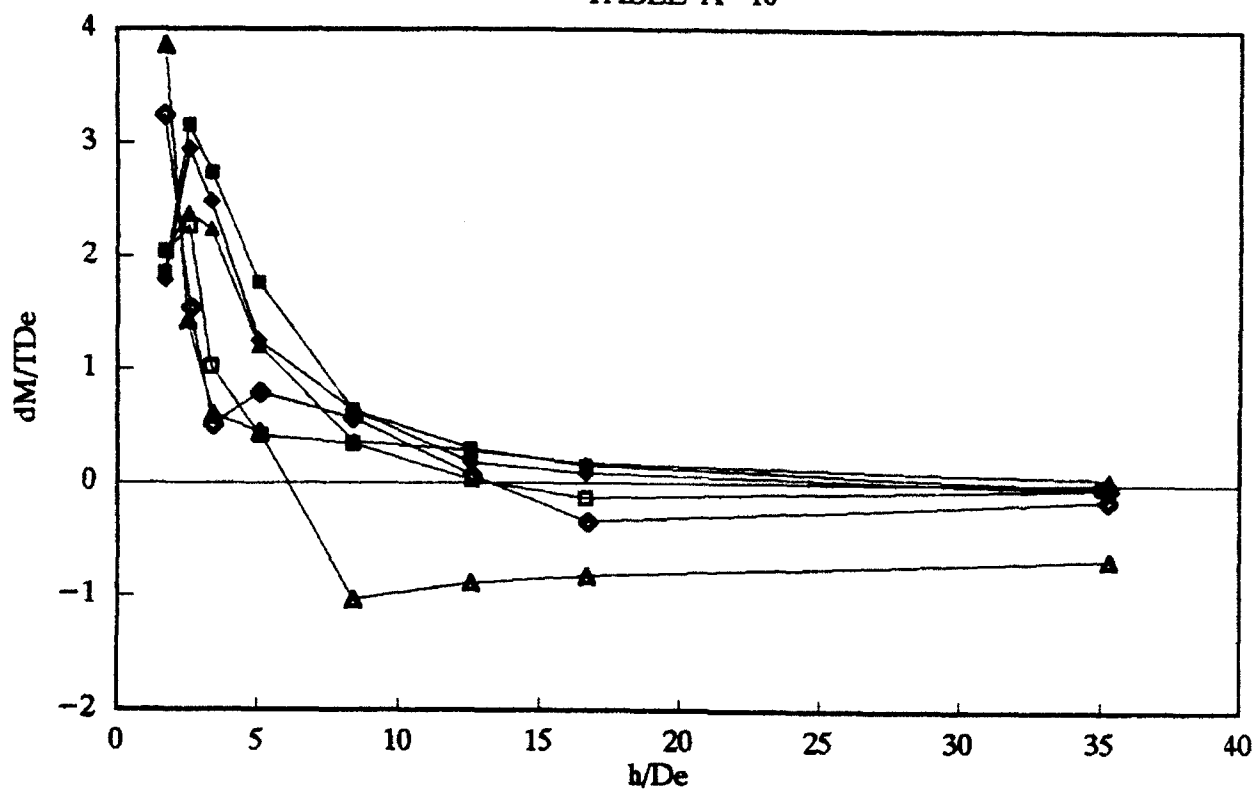


Figure A-10.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration II - Front jet alone - NPR = 2;  
Fixed ground board.

# CONF. III - Twin Front Jets - NPR = 2

TABLE A-11

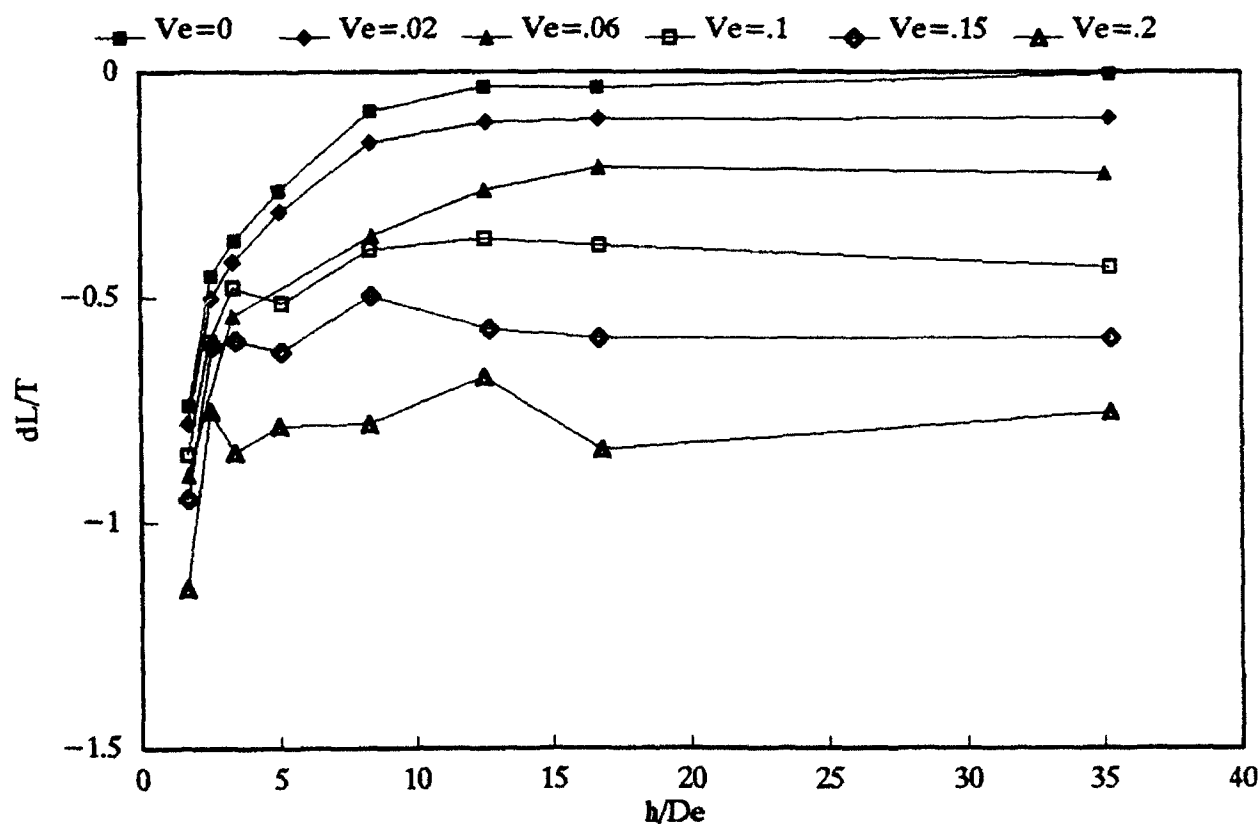
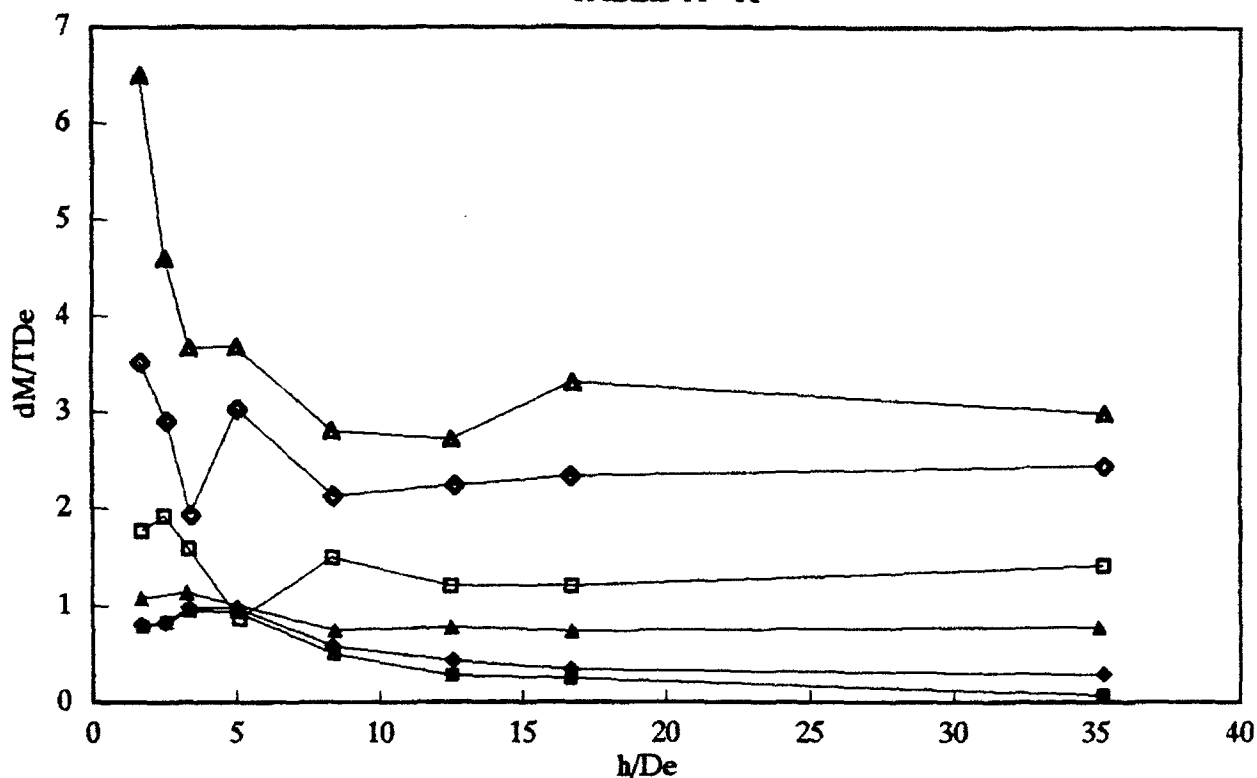


Figure A-11.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration III - Twin front jets - NPR = 2; Fixed ground board.

# CONFIGURATION III - All Jets - NPR = 2

TABLE A-12

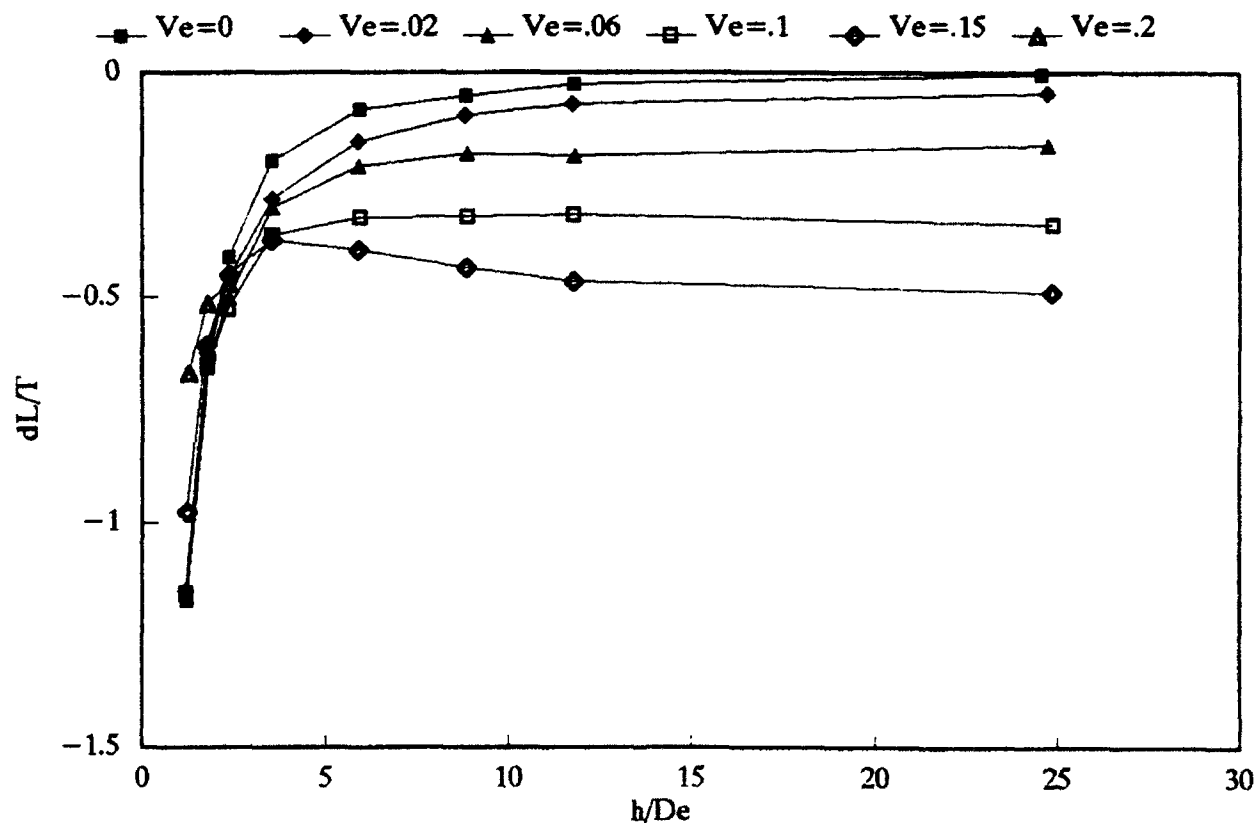
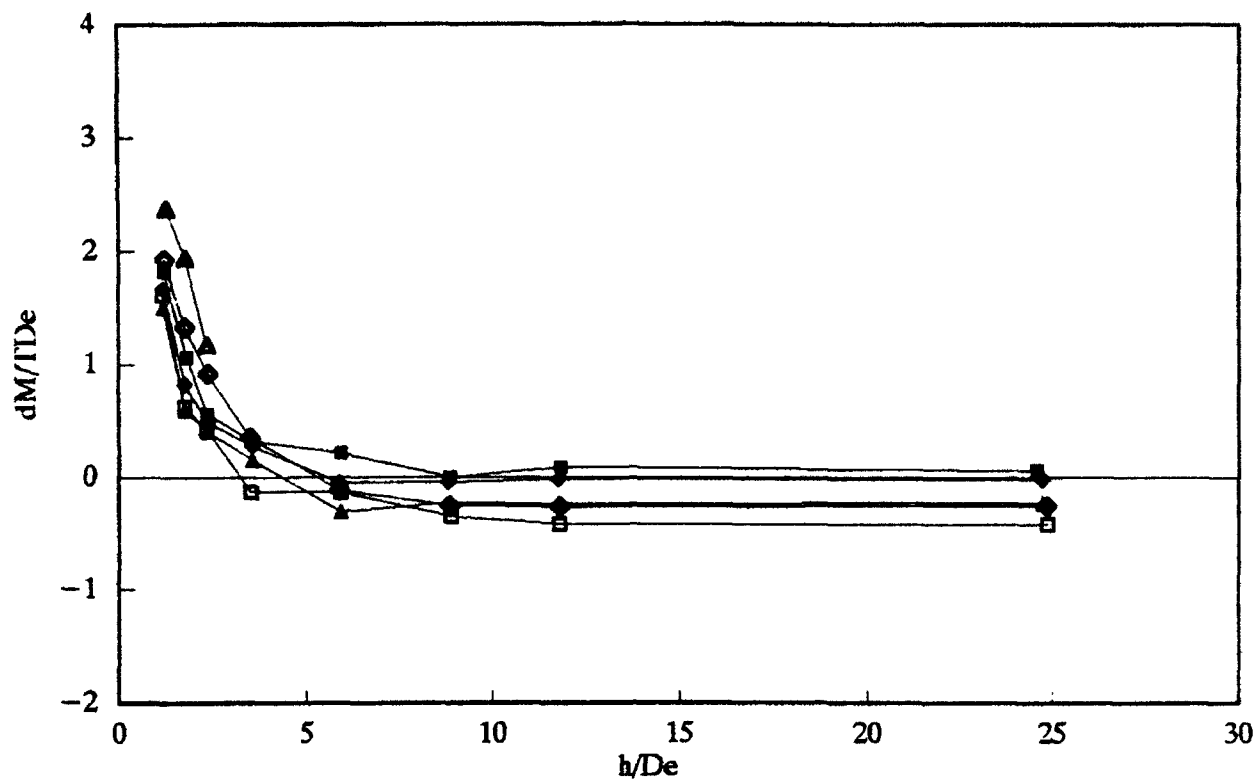


Figure A-12.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration III - All jets - NPR = 2; Fixed ground board.

# CONFIGURATION IV - All Jets - NPR = 2

TABLE A-13

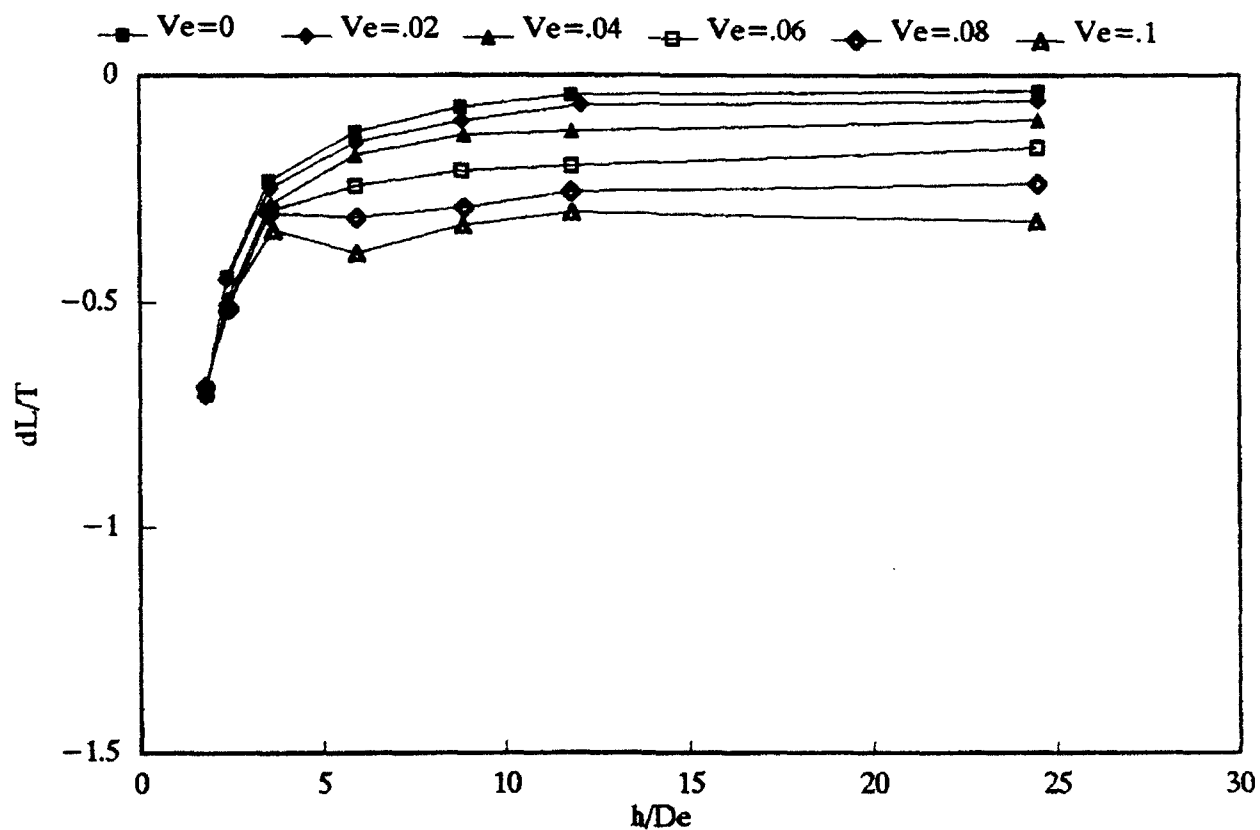
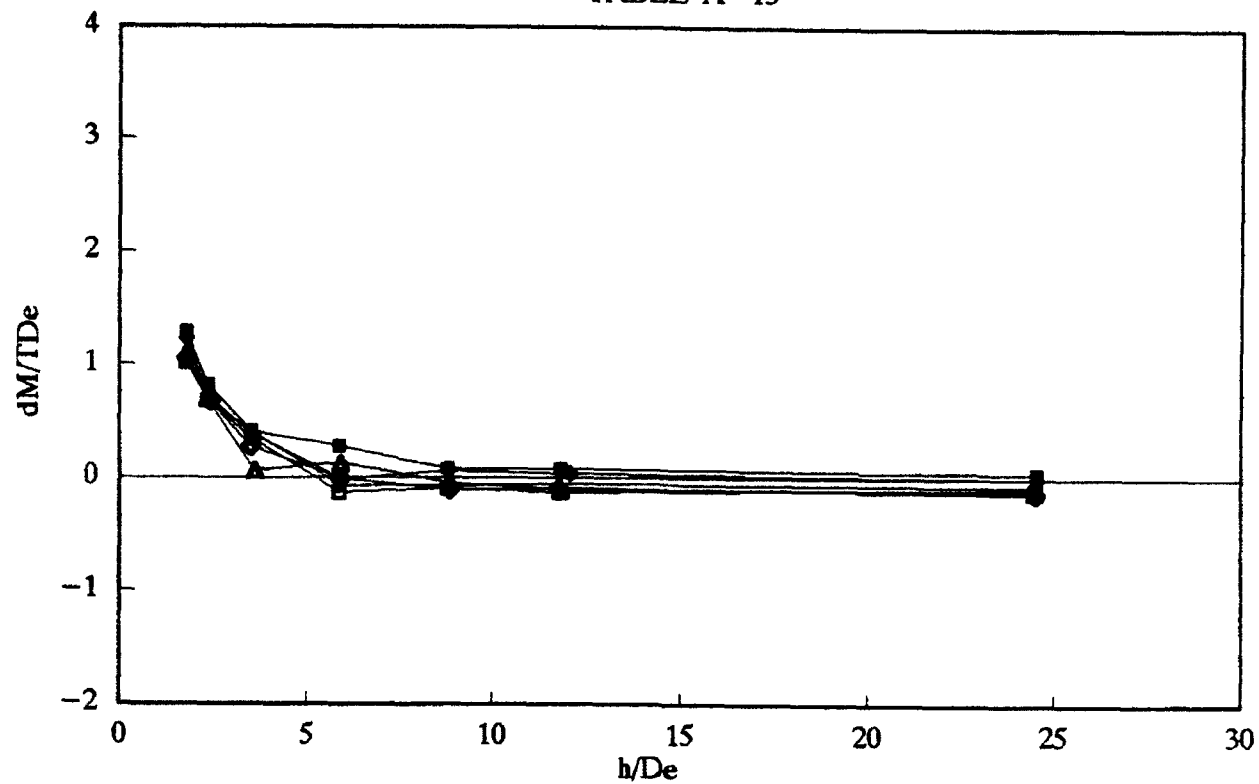


Figure A-13.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration IV - All jets - NPR = 2;  
Fixed ground board.



# CONFIGURATION IV - All Jets - NPR = 2

TABLE A-14

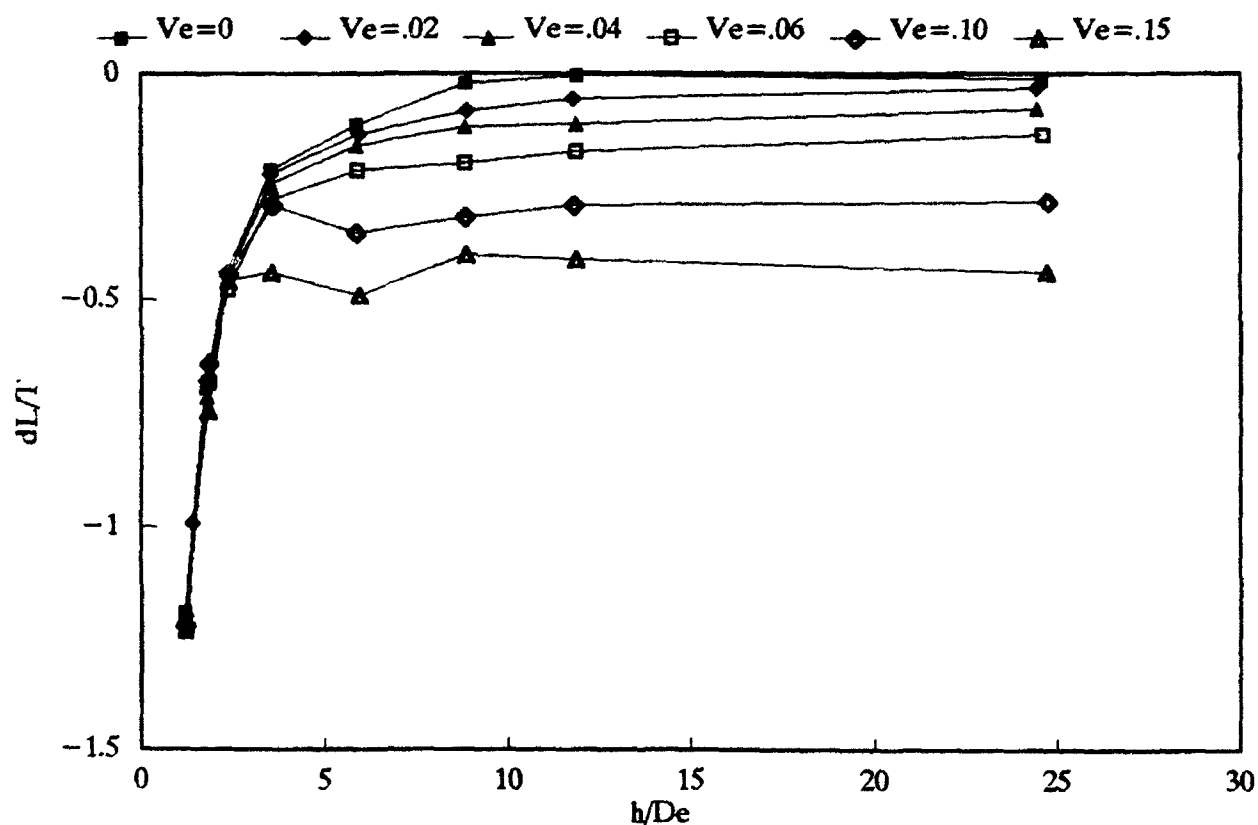
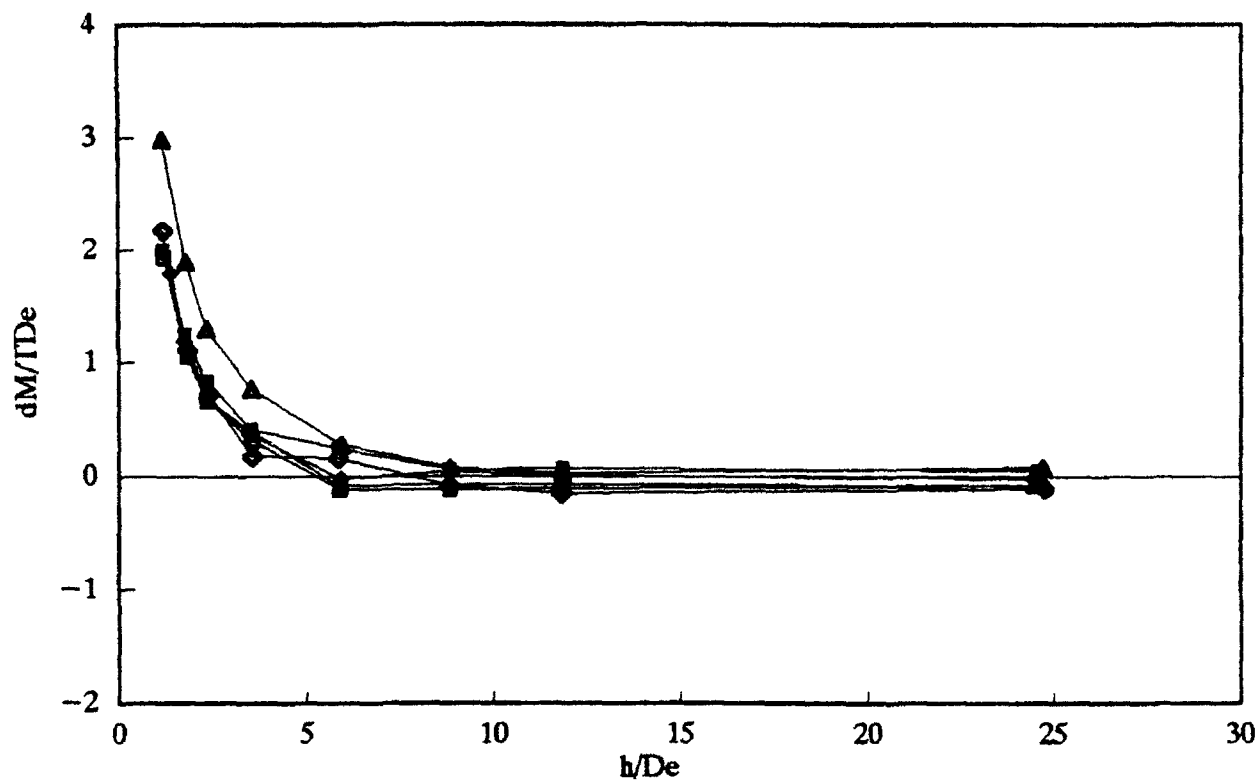


Figure A-14.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration IV - All jets - NPR = 2 - Repeat; Fixed ground board.

# CONFIGURATION V – Both Jets – NPR = 2

TABLE A-15

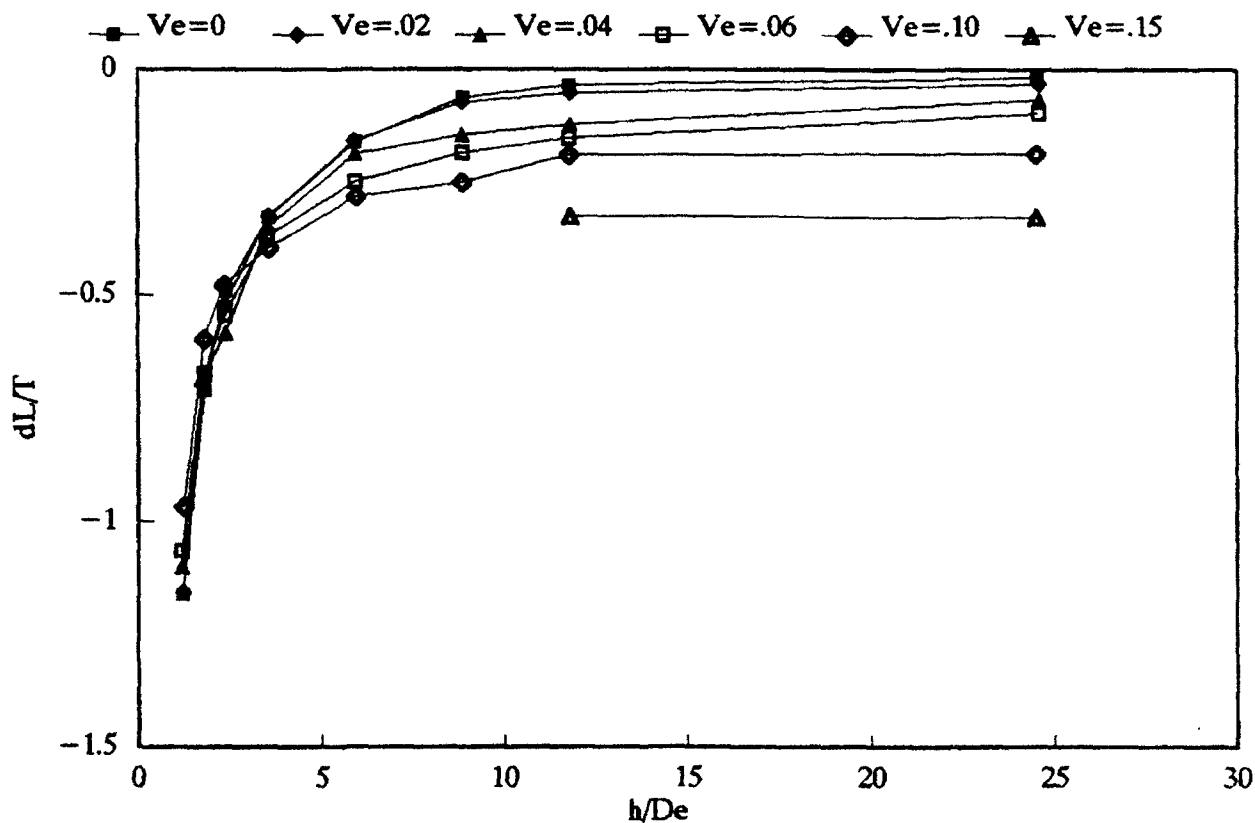
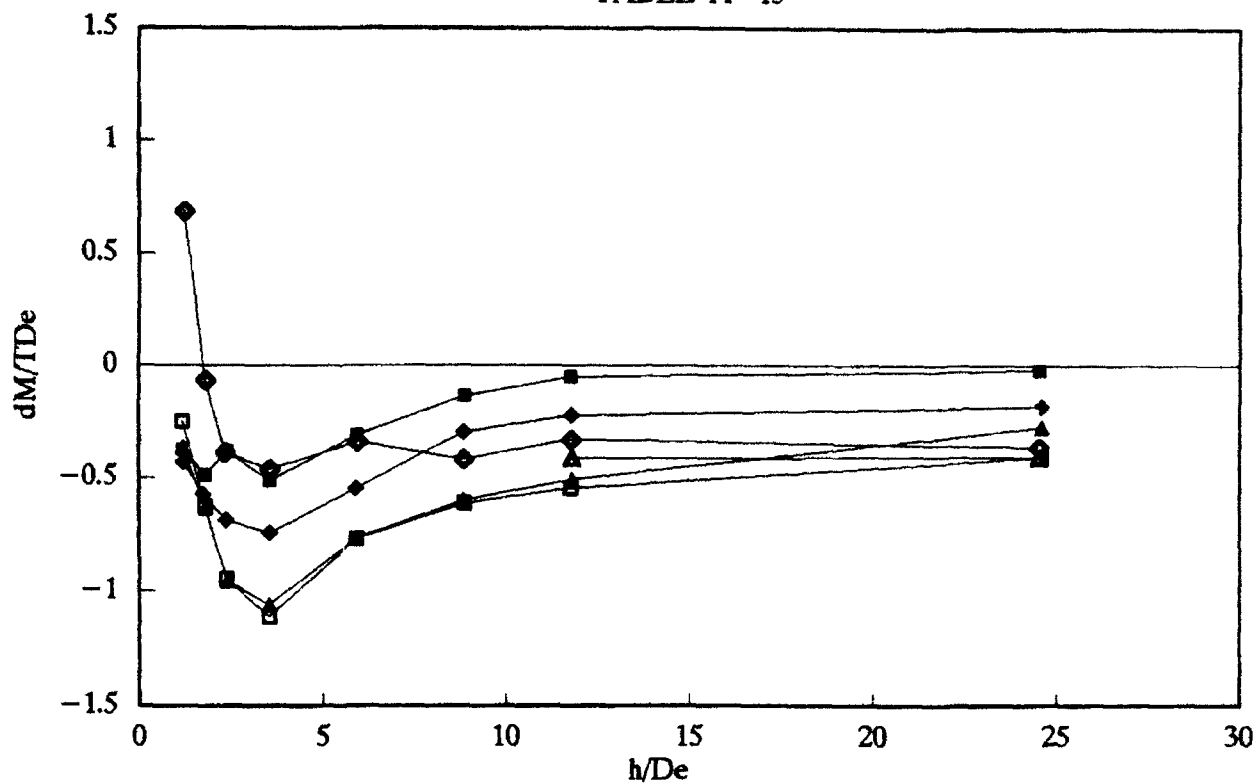


Figure A-15.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration V - Both jets - NPR = 2; Fixed ground board.

# CONFIGURATION VI - Both Jets - NPR = 2

TABLE A-16

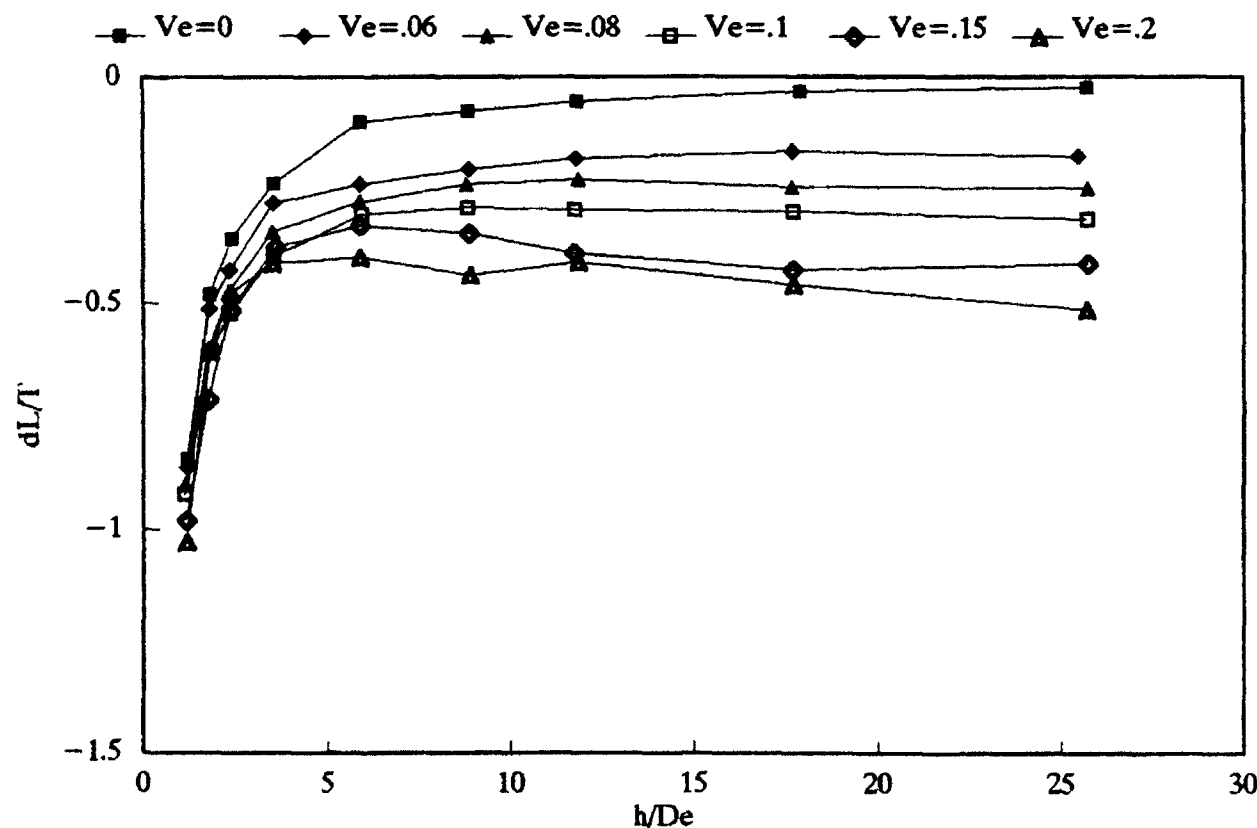
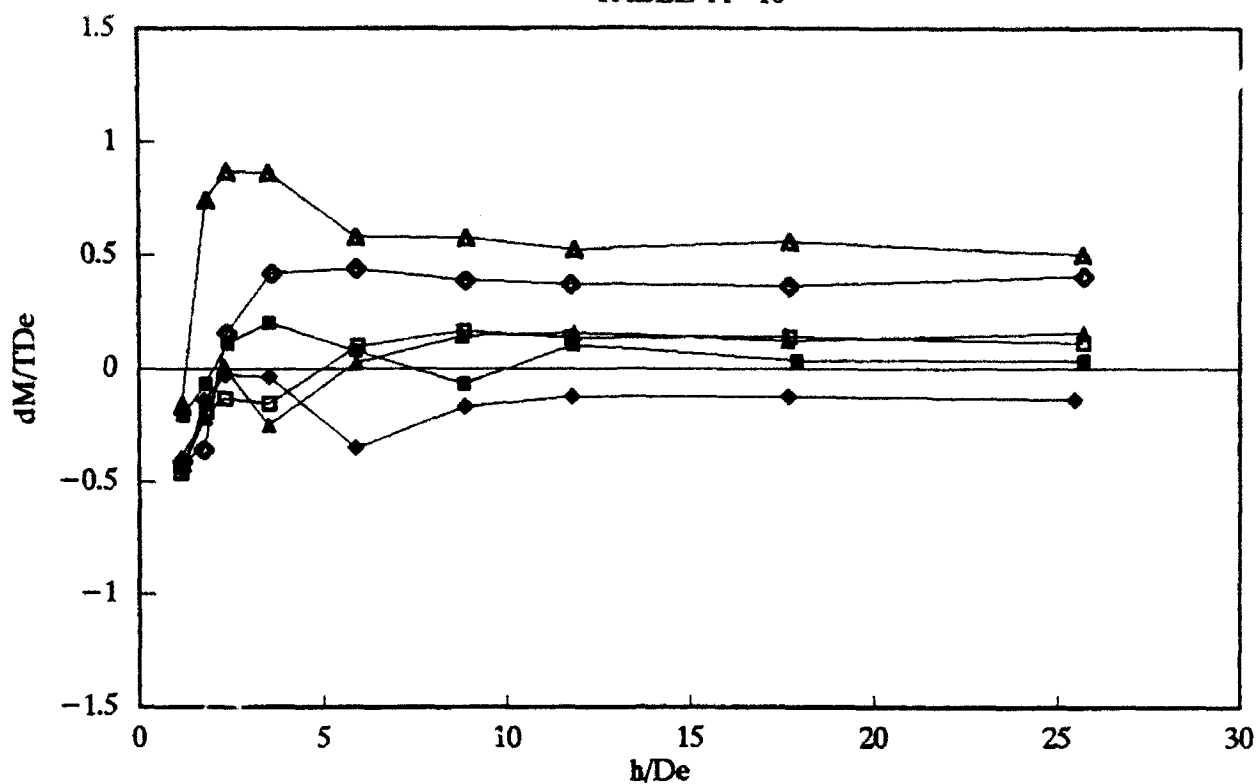


Figure A-16.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration VI - Both jets - NPR = 2; Fixed ground board.

# CONFIGURATION VI - Both Jets - NPR = 4

TABLE A-17

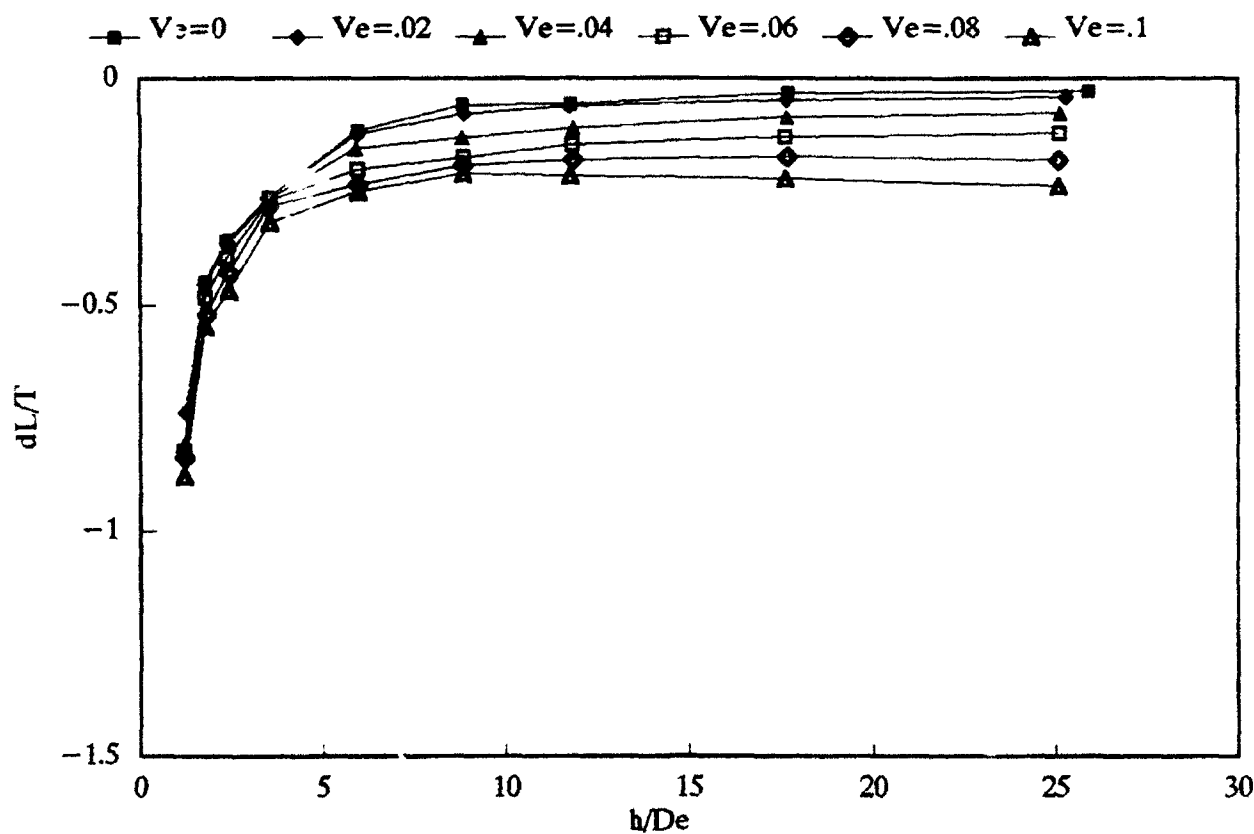
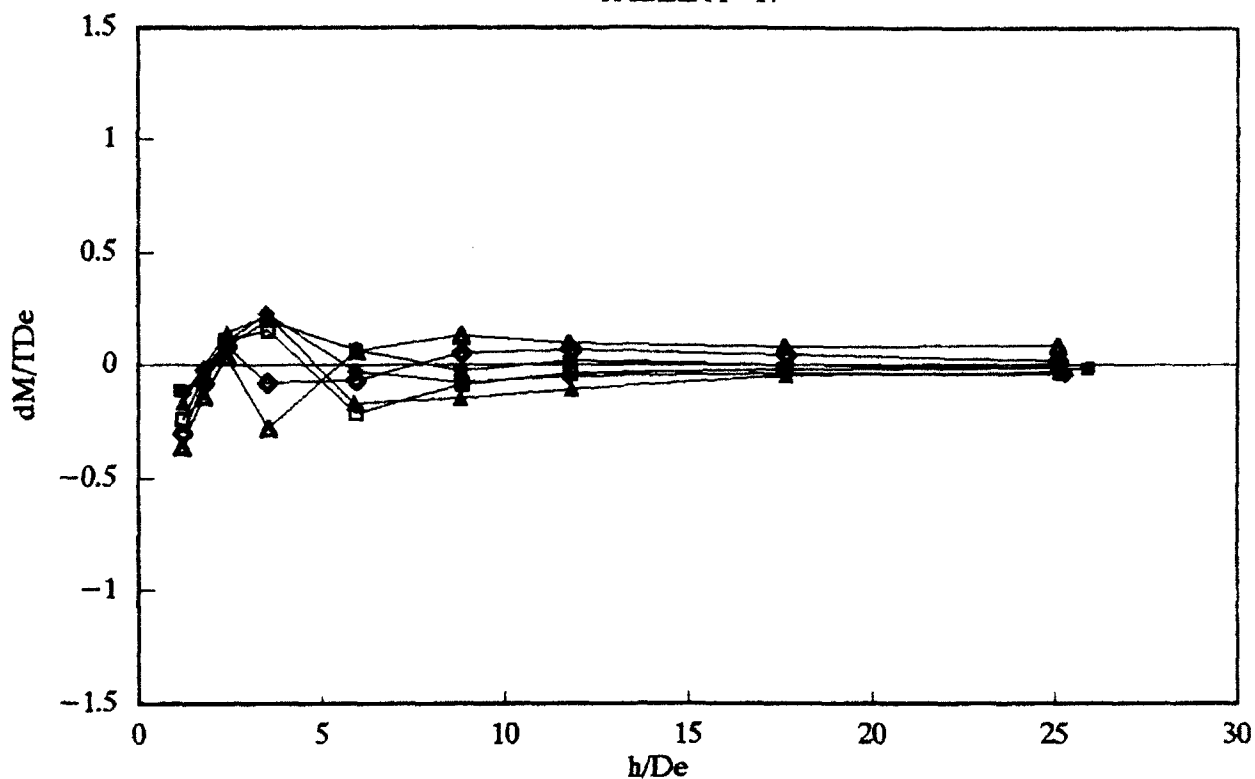


Figure A-17.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration VI - Both jets - NPR = 4;  
Fixed ground board.

# CONFIGURATION VI — Both Jets — NPR = 6

TABLE A-18

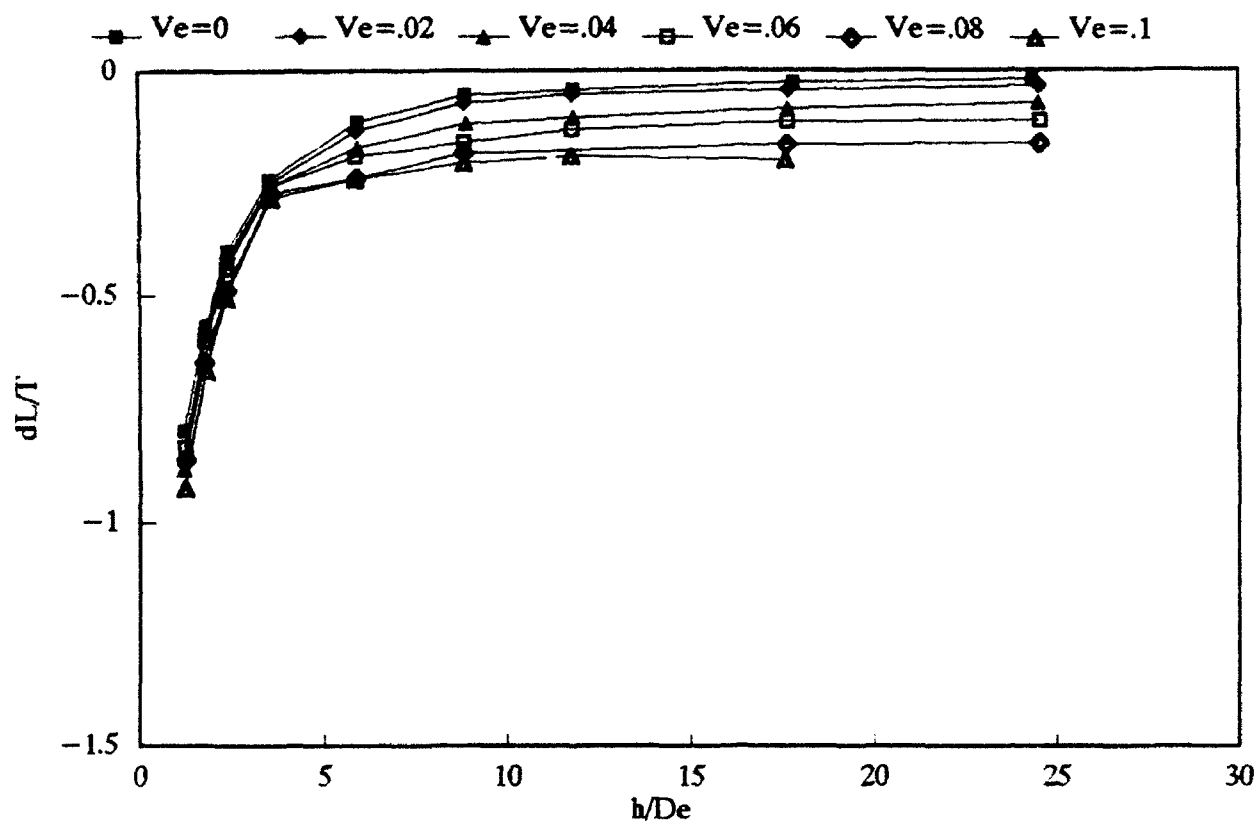
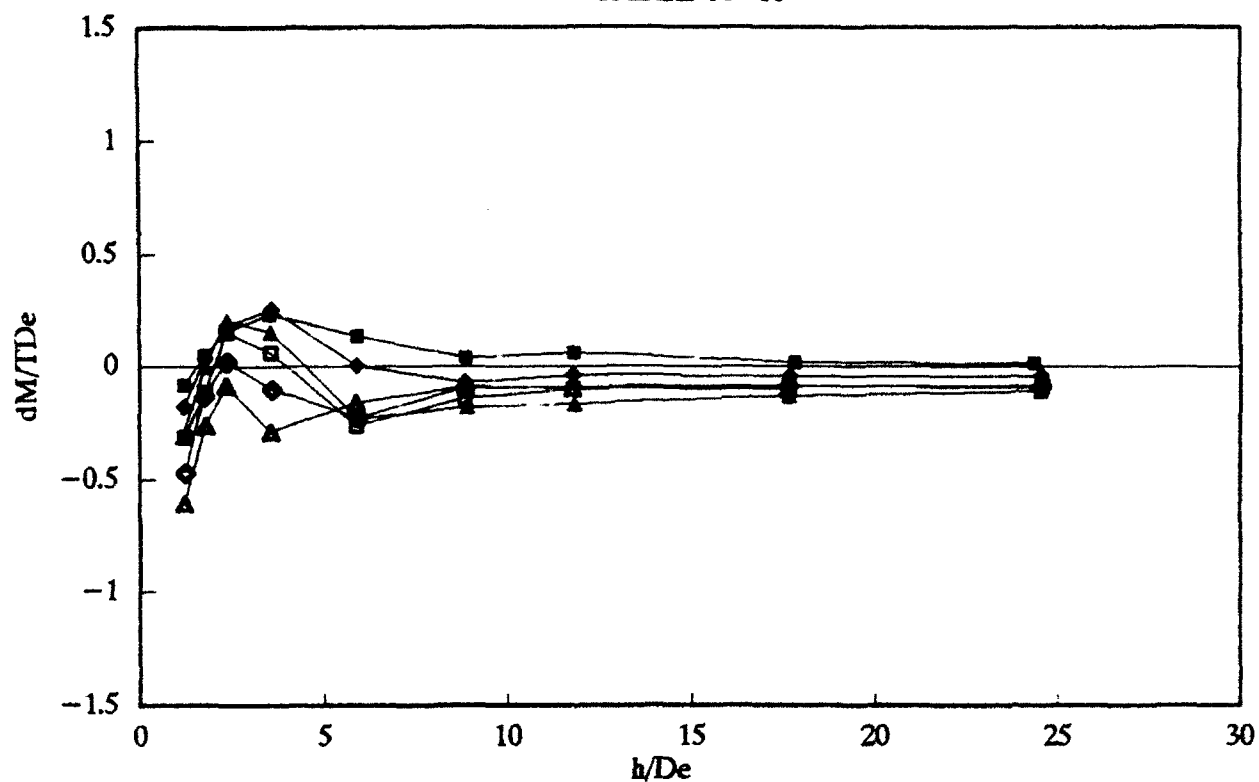


Figure A-18.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration VI - Both jets - NPR = 6;  
Fixed ground board.

# CONFIGURATION VII - Both Jets - NPR = 2

TABLE A-19

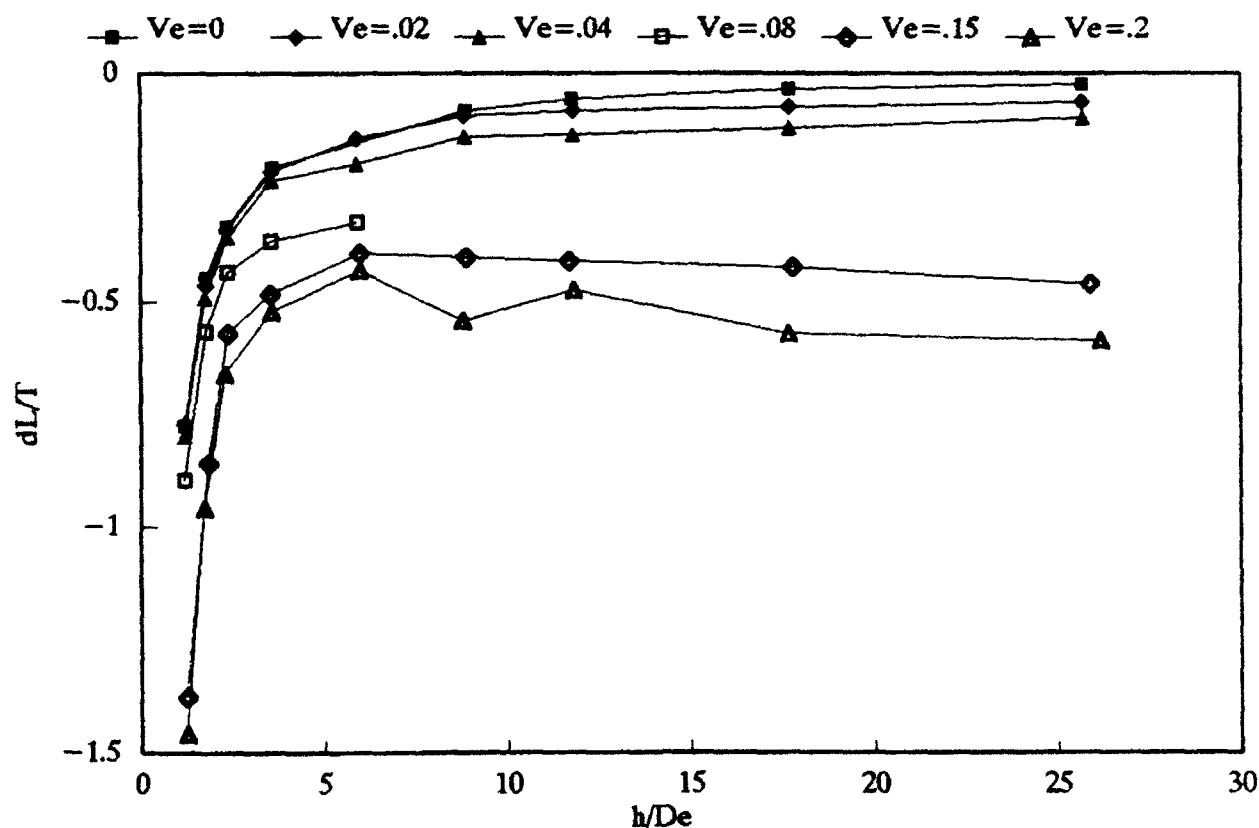
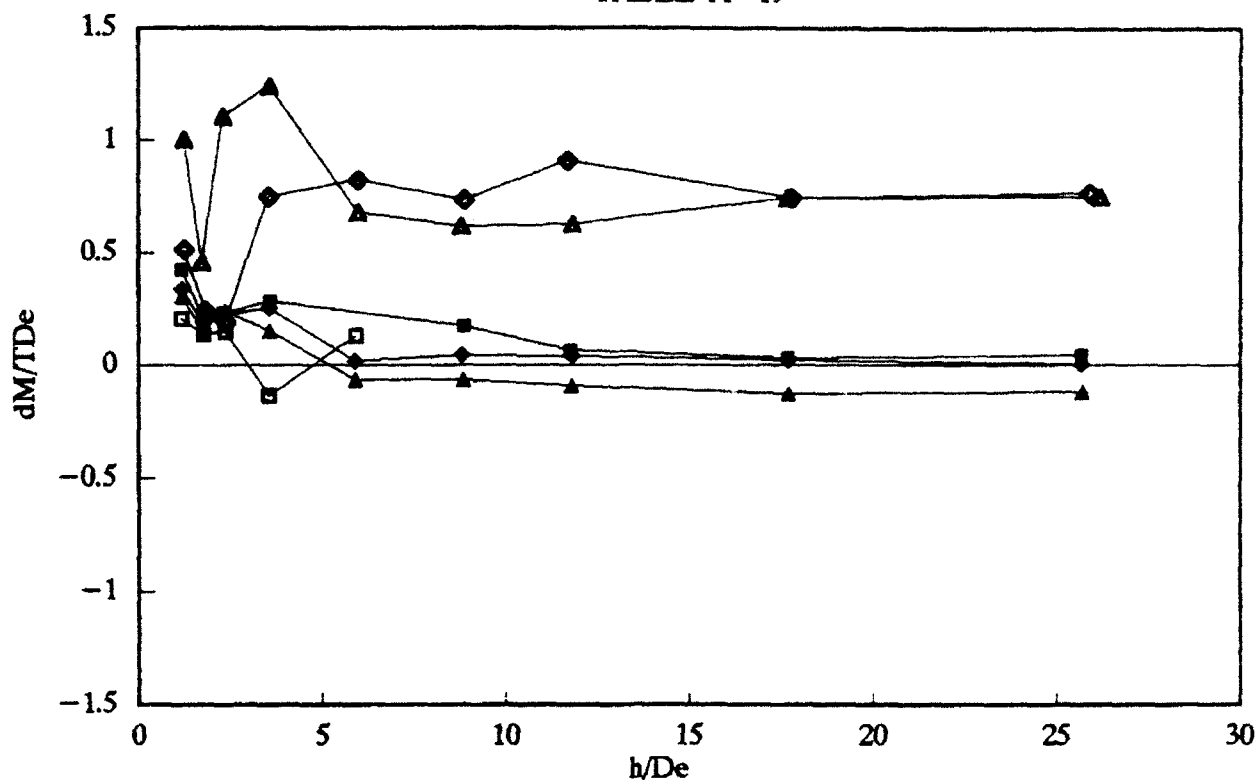


Figure A-19.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration VII - both jets - NPR = 2; Fixed ground board.

# CONFIGURATION VII - Both Jets - NPR = 4

TABLE A-20

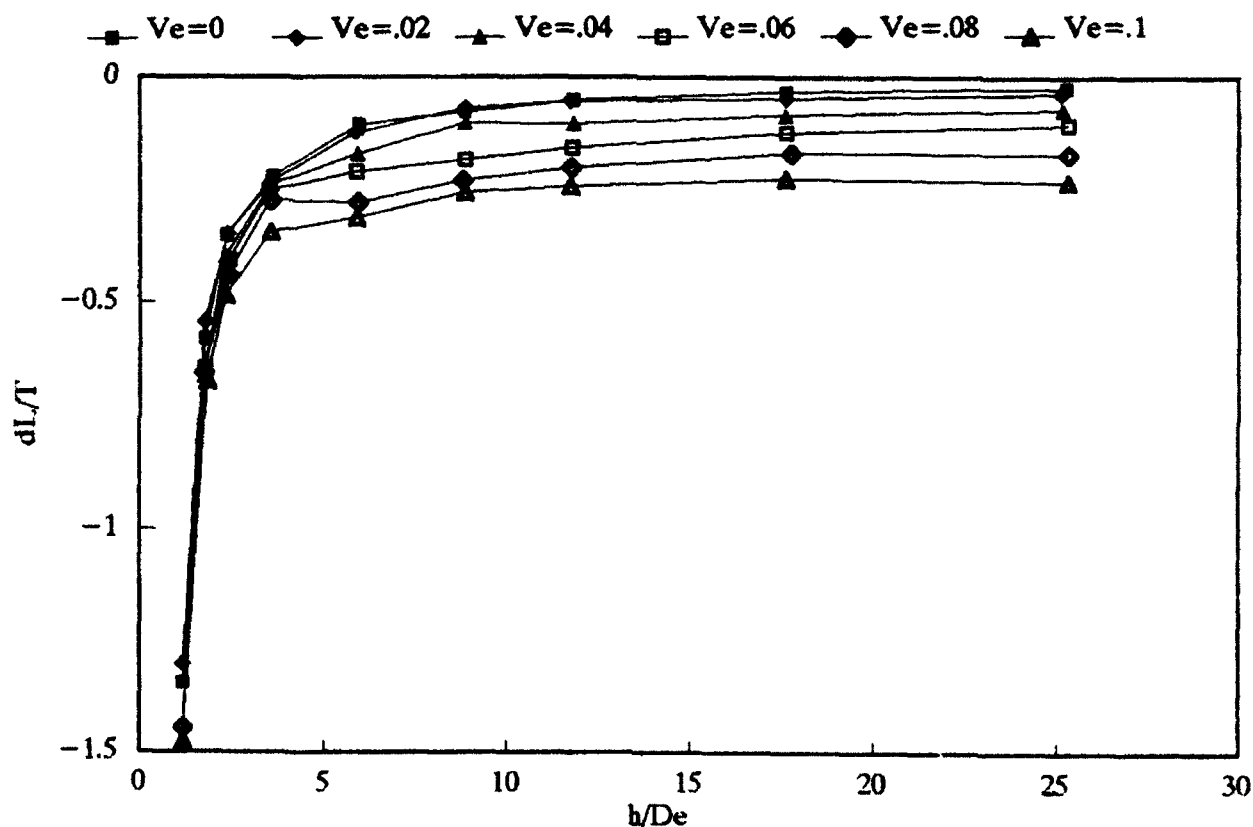
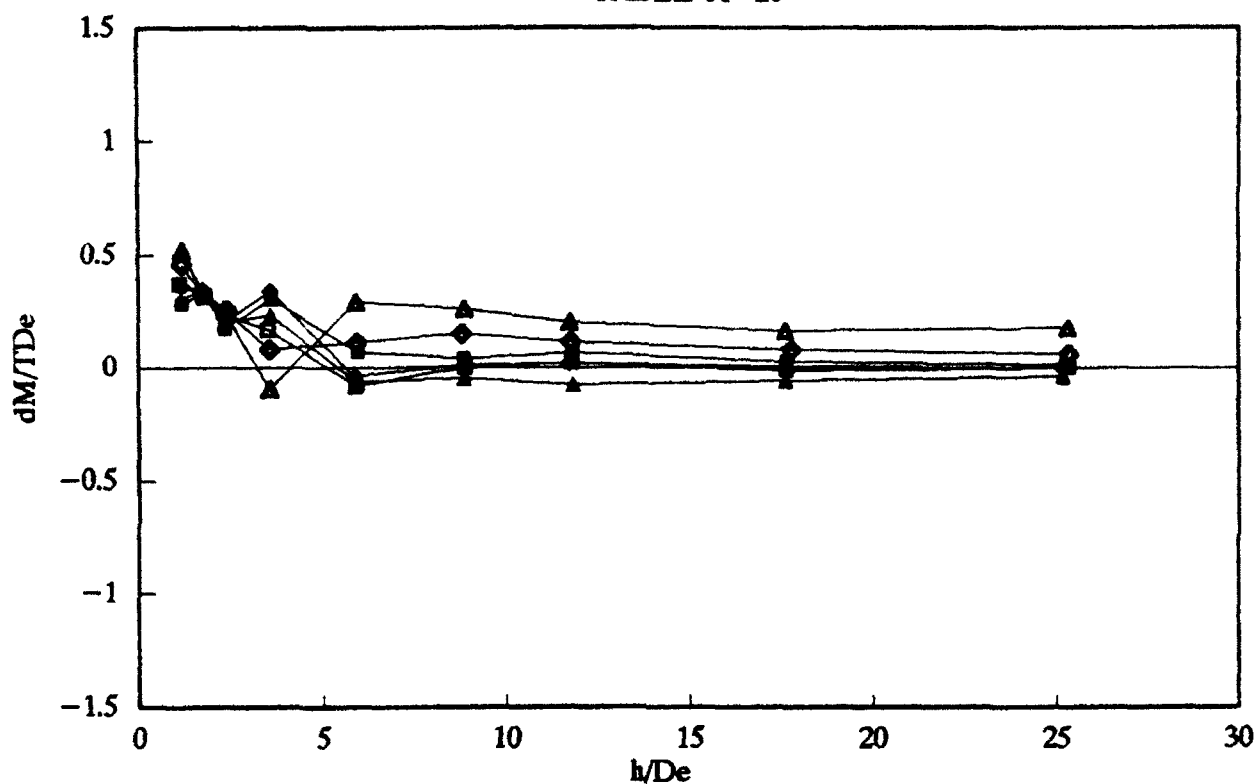


Figure A-20.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration VII - Both jets - NPR = 4;  
Fixed ground board.

# CONFIGURATION VII - Both Jets - NPR = 6

TABLE A-21

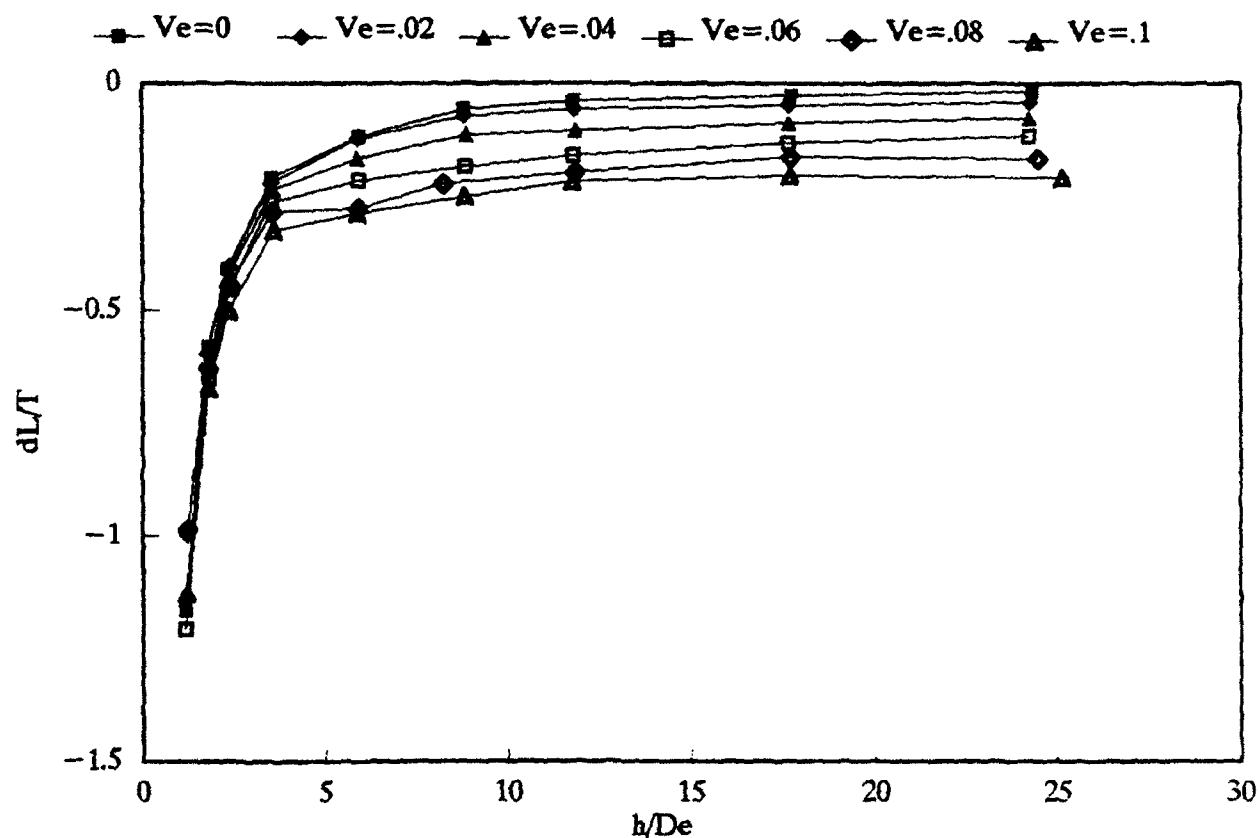
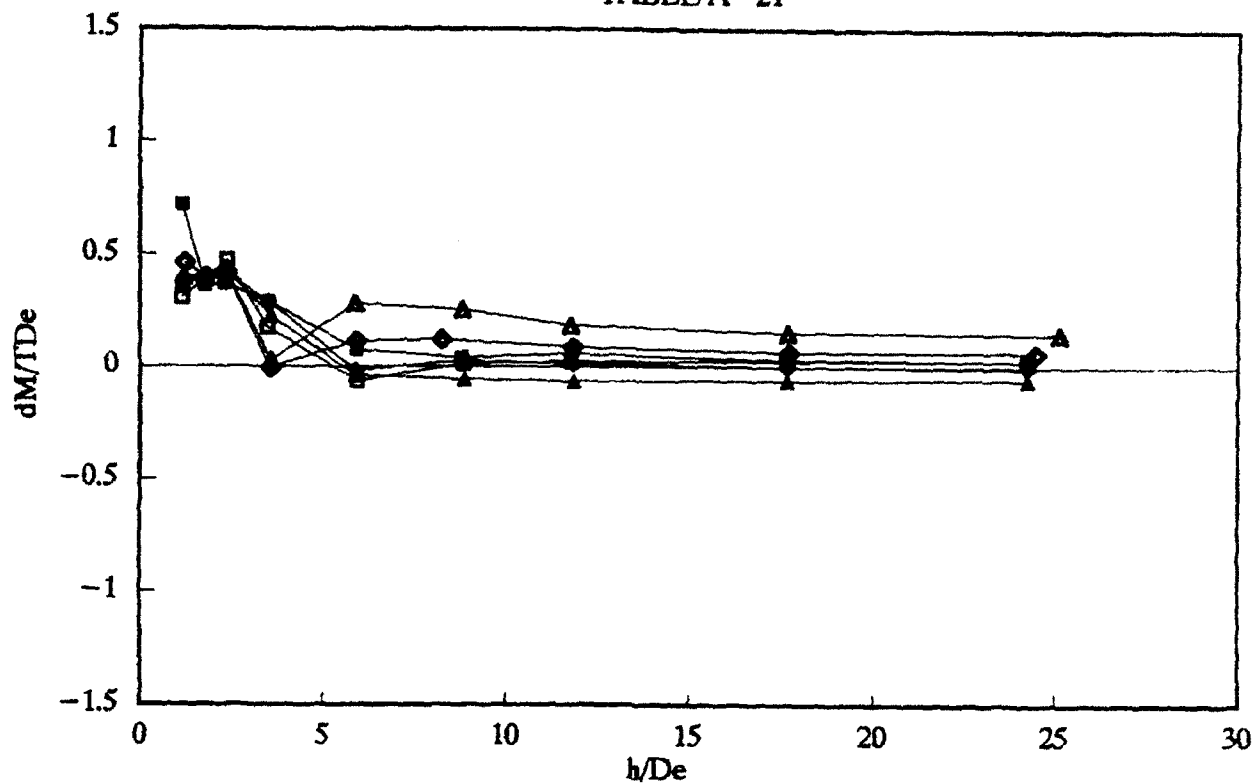


Figure A-21.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration VII - Both jets - NPR = 6; Fixed ground board.



CONFIGURATION VII - Rear Jet Alone - NPR = 2  
TABLE A-22

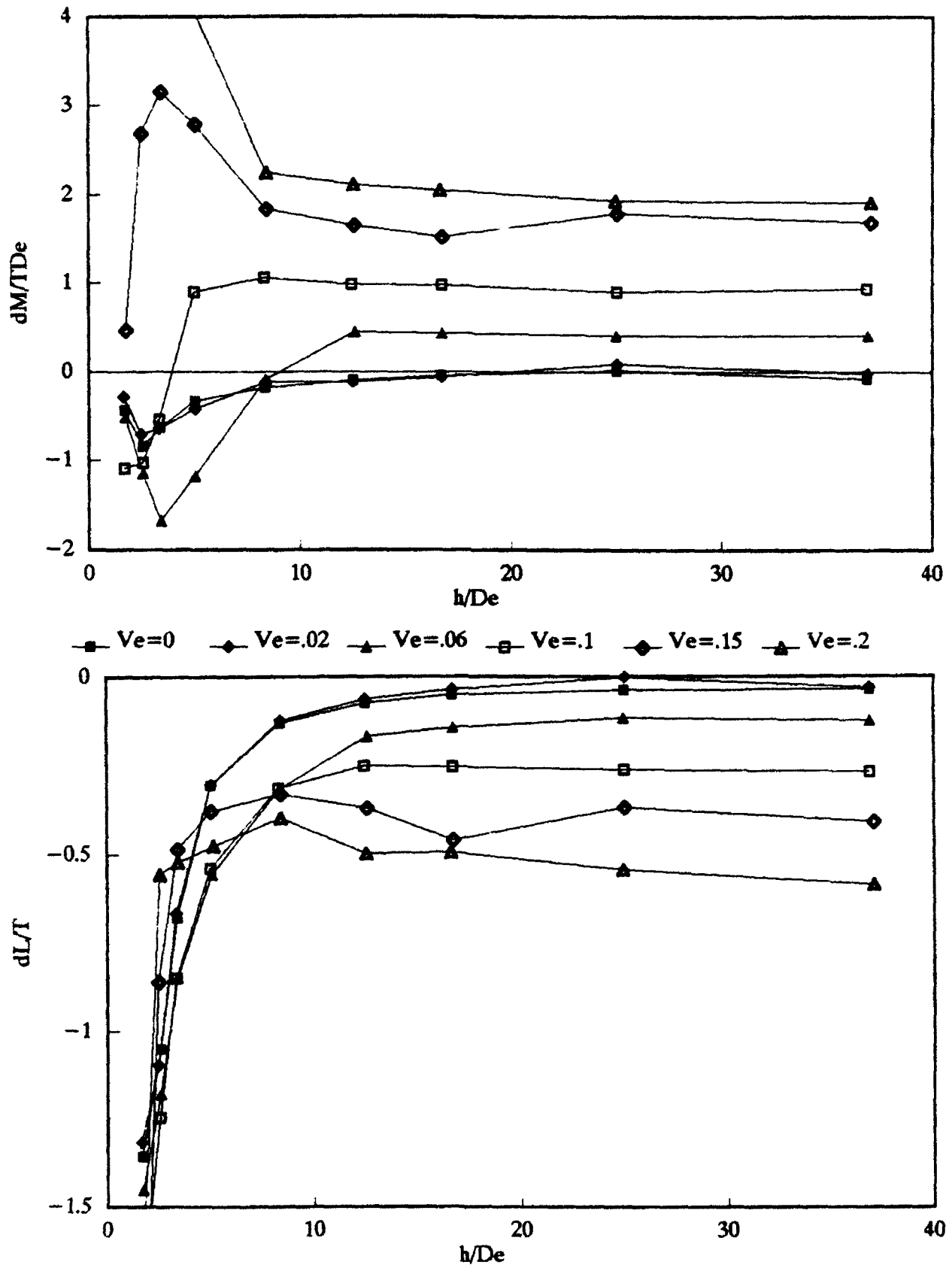


Figure A-22.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration VII - Rear jet alone - NPR = 2;  
Fixed ground board.

# CONFIGURATION I - Both Jets - NPR = 2

TABLE A-23 -- Belt Stopped

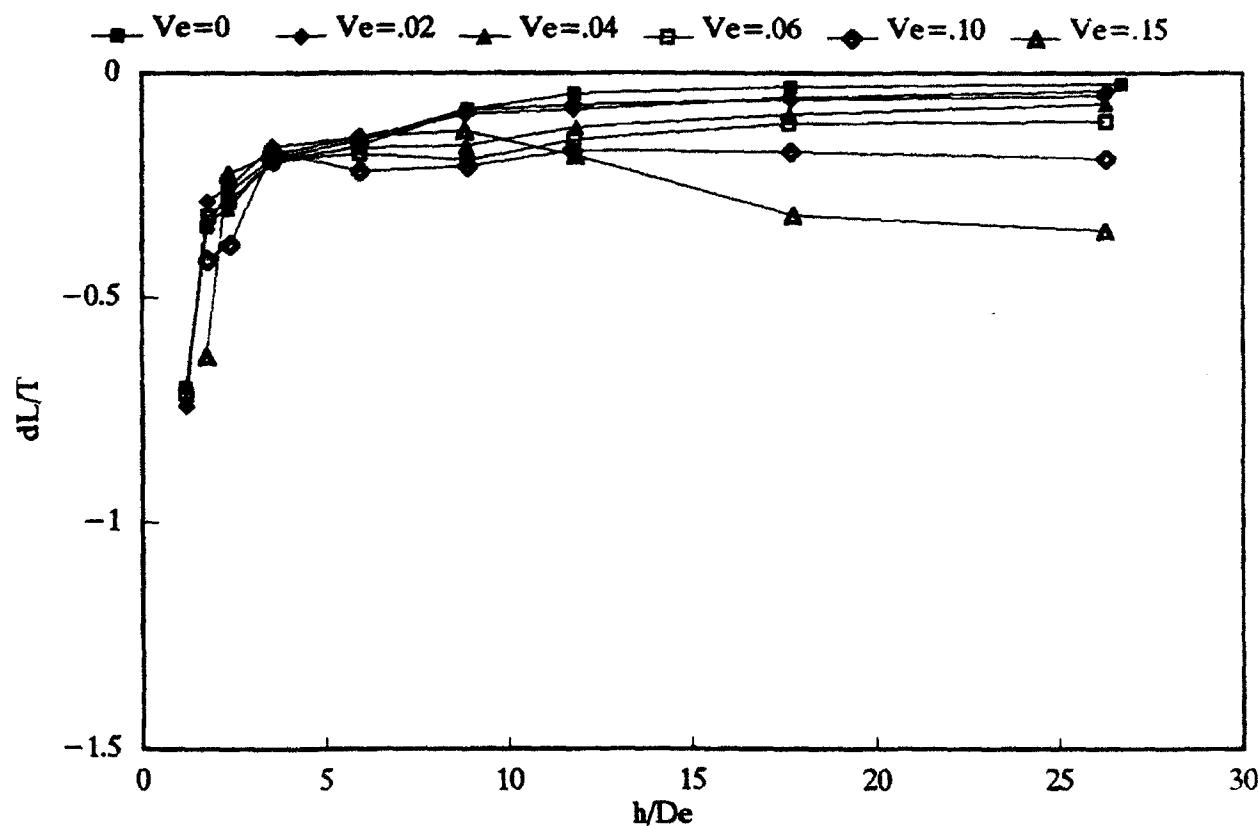
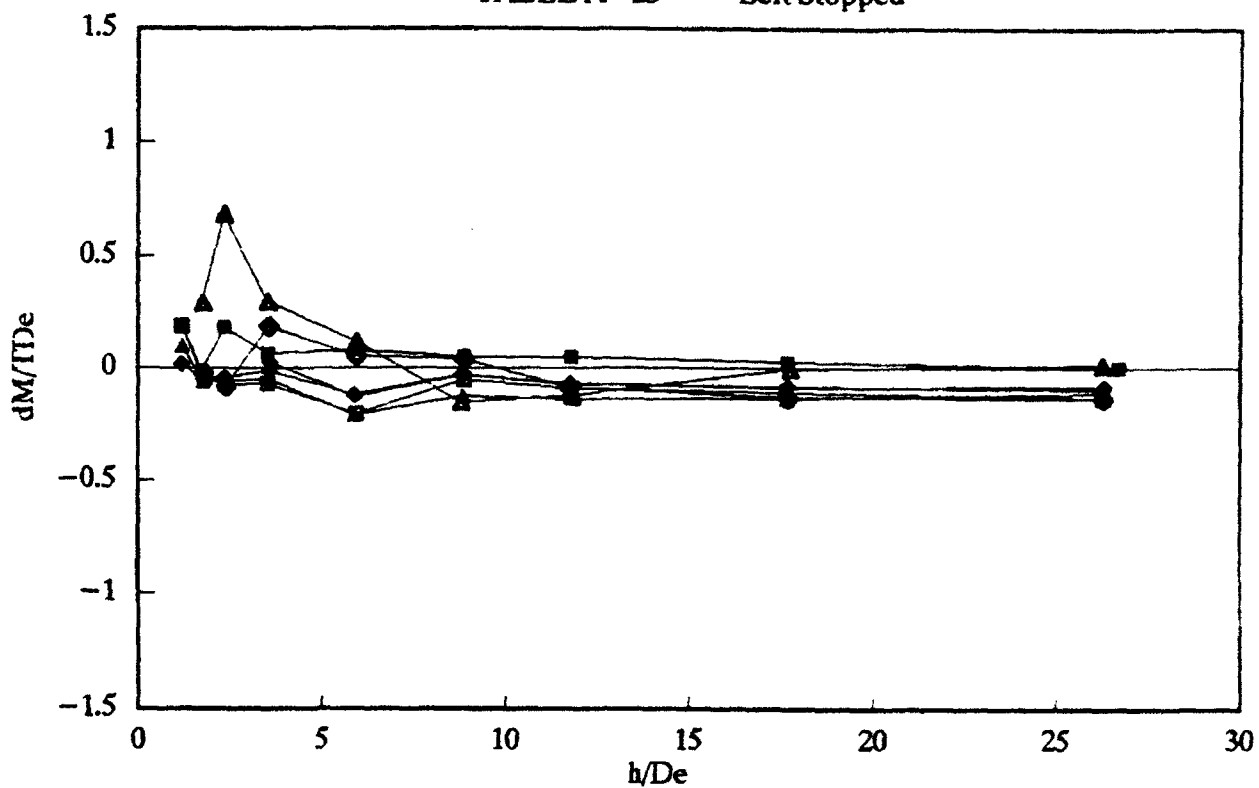


Figure A-23.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration I - Both jets - NPR = 2; Belt stopped.

CONFIGURATION I - Rear Jet Alone - NPR = 2  
TABLE A-24 -- Belt Stopped

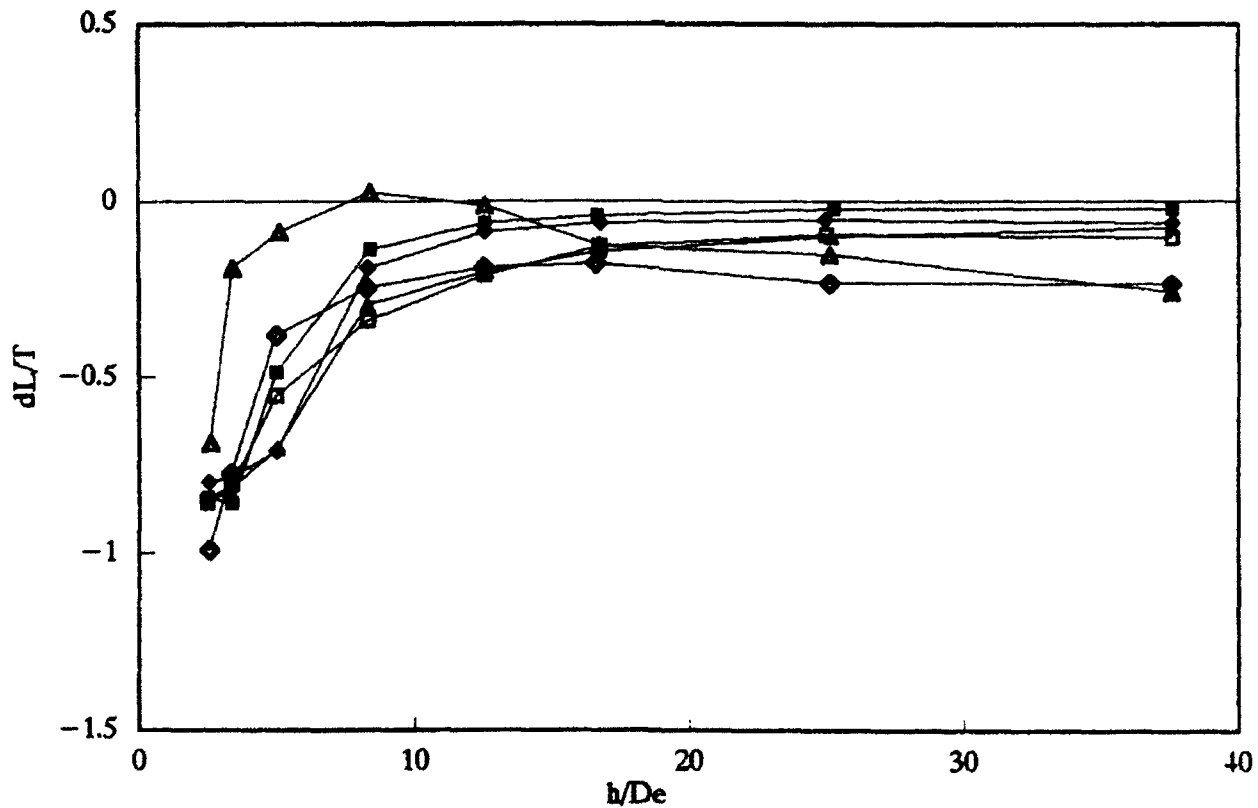
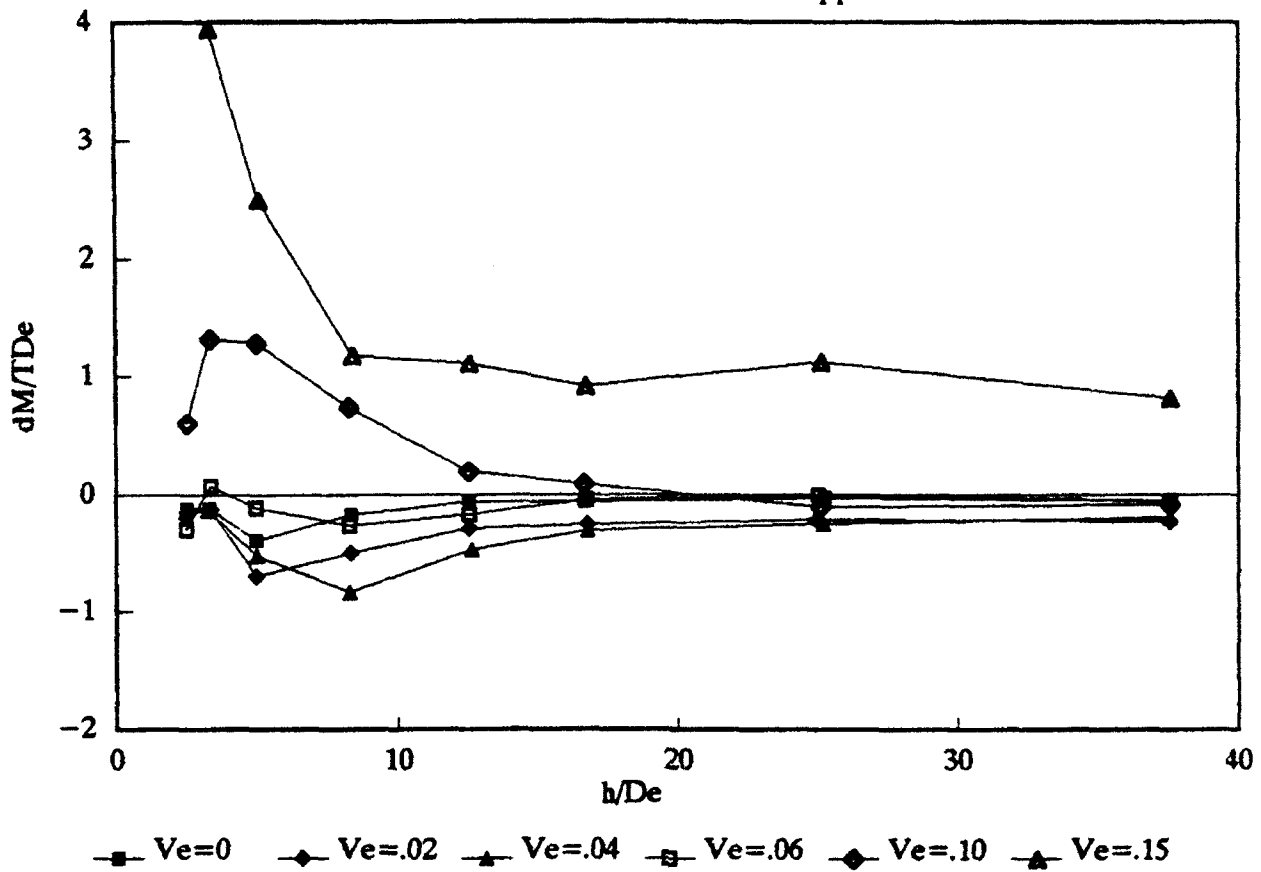


Figure A-24.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration I - Rear jet alone - NPR = 2;  
Belt stopped.

# CONFIGURATION II – Both Jets – NPR = 2

TABLE A-25 – Belt Stopped

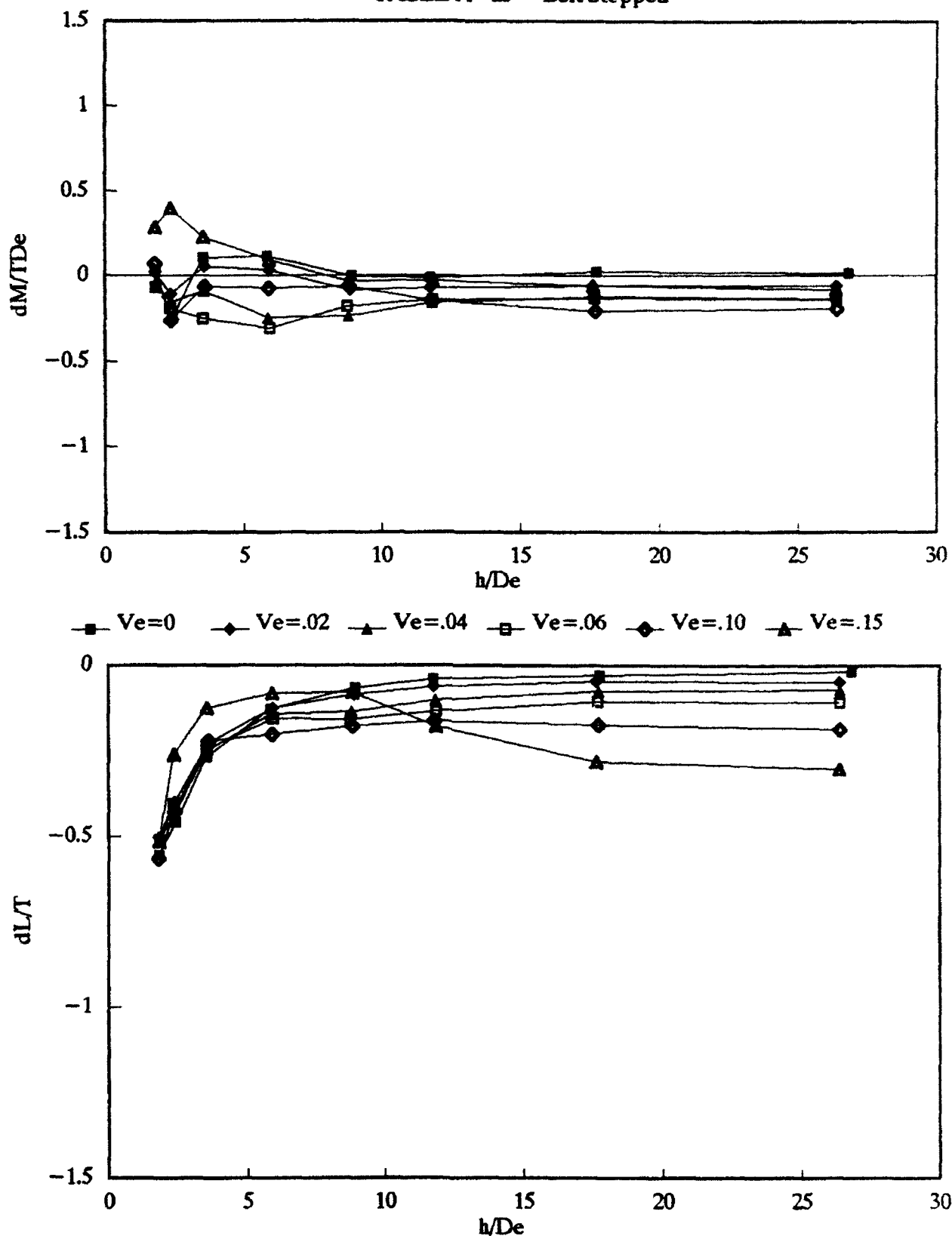


Figure A-25.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration II - Both jets - NPR = 2;  
Belt stopped.

# CONFIGURATION VI - Both Jets - NPR = 2

TABLE A-26 -- Belt Stopped

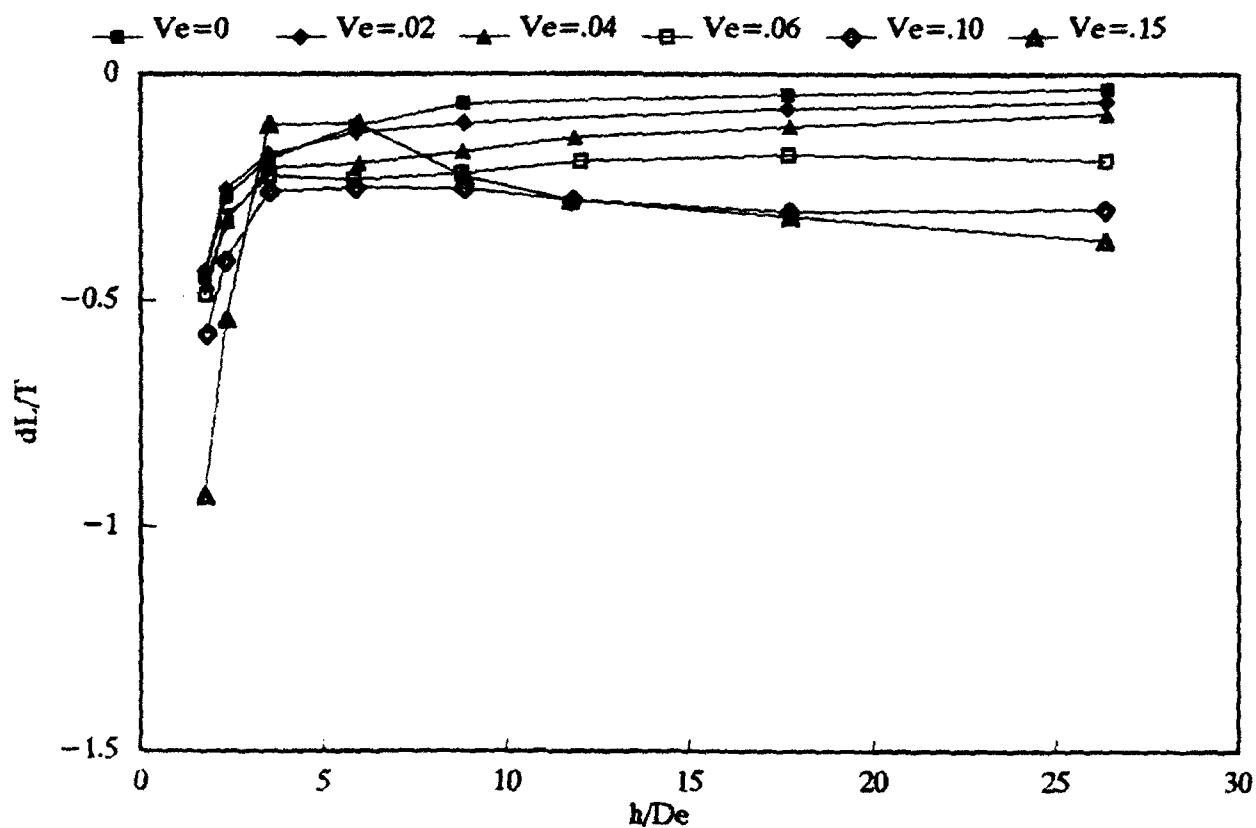
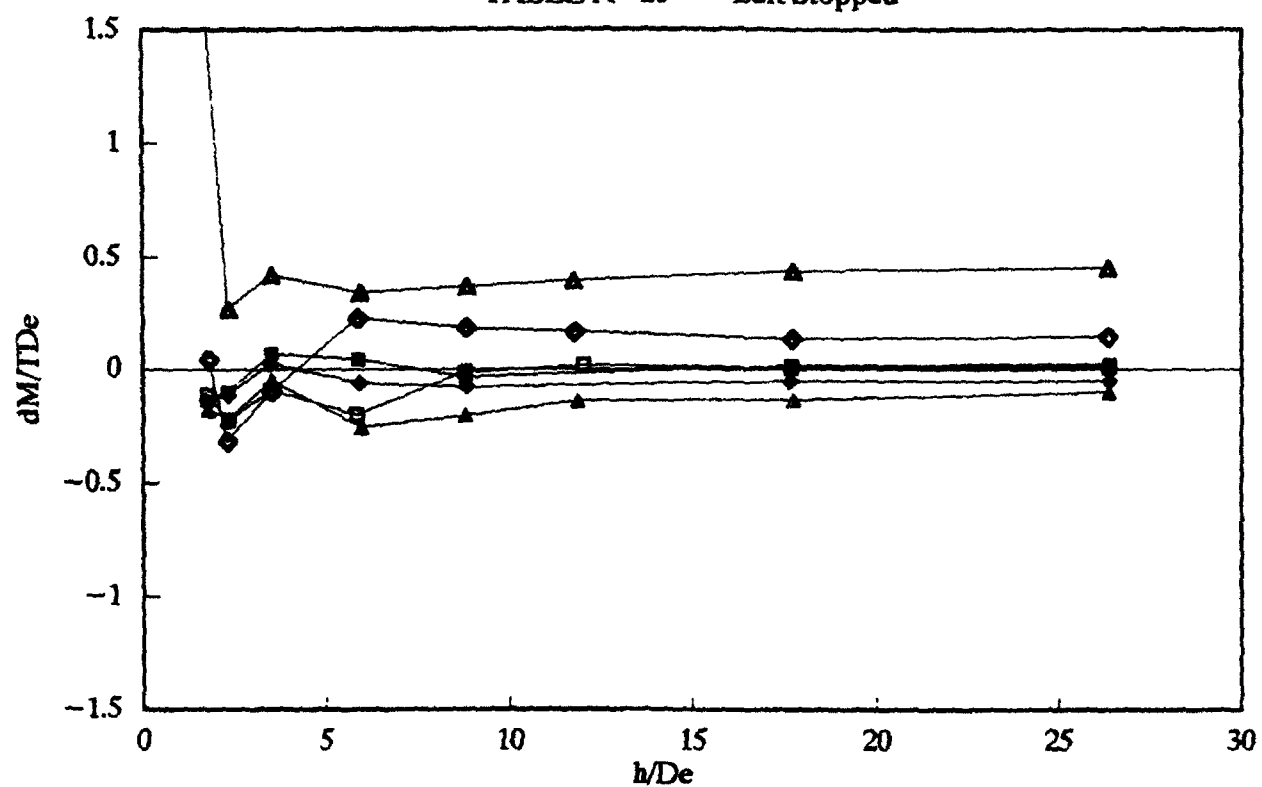


Figure A-26.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration VI - Both jets - NPR = 2; Belt stopped.

# CONFIGURATION I - Both Jets - NPR = 2

Effect of Belt Speed - TABLE A-27 -  $V_e = 0$

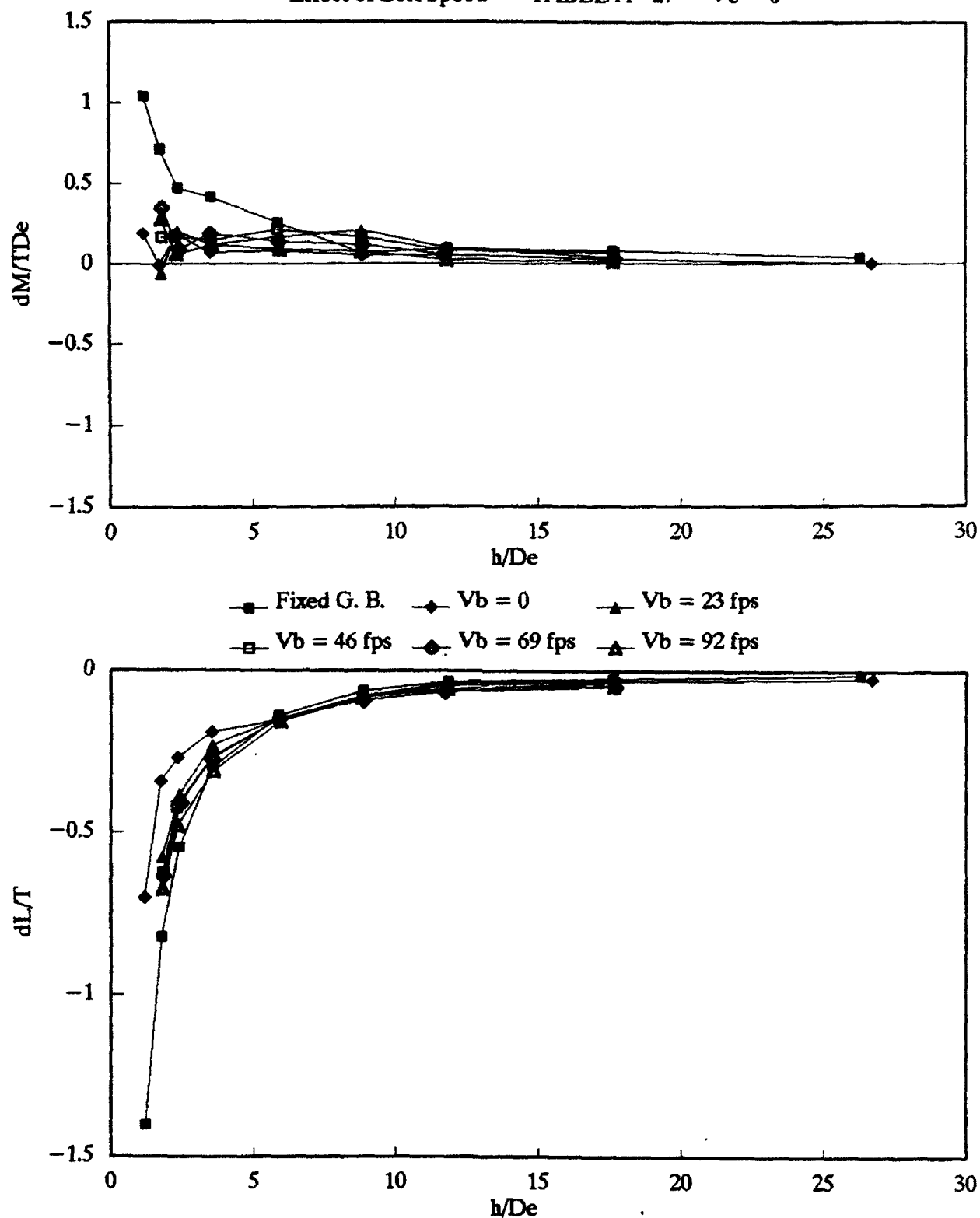


Figure A-27.- Effect of belt speed (at zero tunnel speed) on the jet induced increments of lift and pitching moment;  
Configuration I - Both jets - NPR = 2 -  $V_e = 0$ .

# CONFIGURATION I - Both Jets - NPR = 2

Belt Running - TABLE A-28

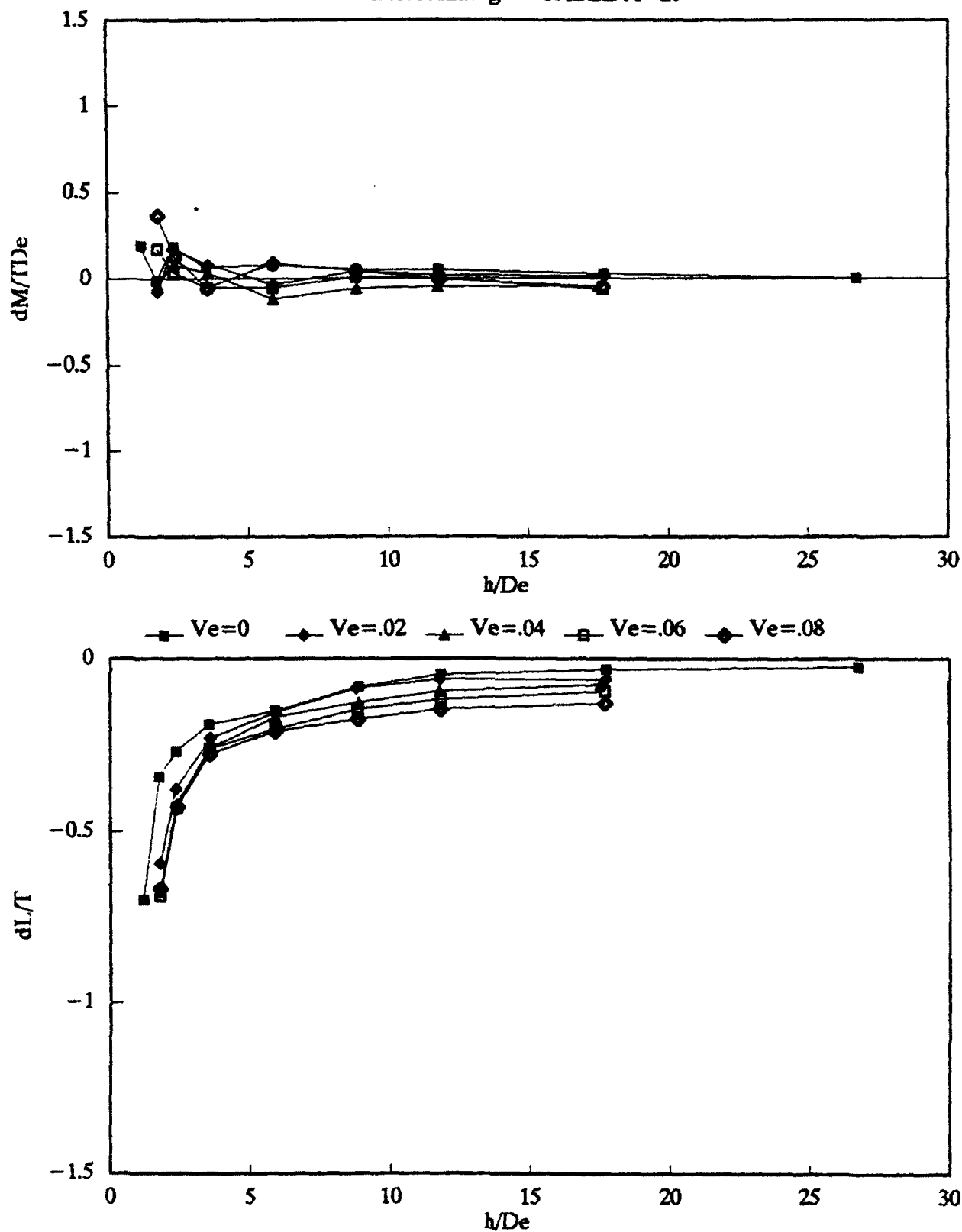


Figure A-28.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment; Configuration I - Both jets - NPR = 2; Belt running at tunnel speed.

CONFIGURATION I - Rear Jet Alone - NPR = 2  
Belt Running - TABLE A-29

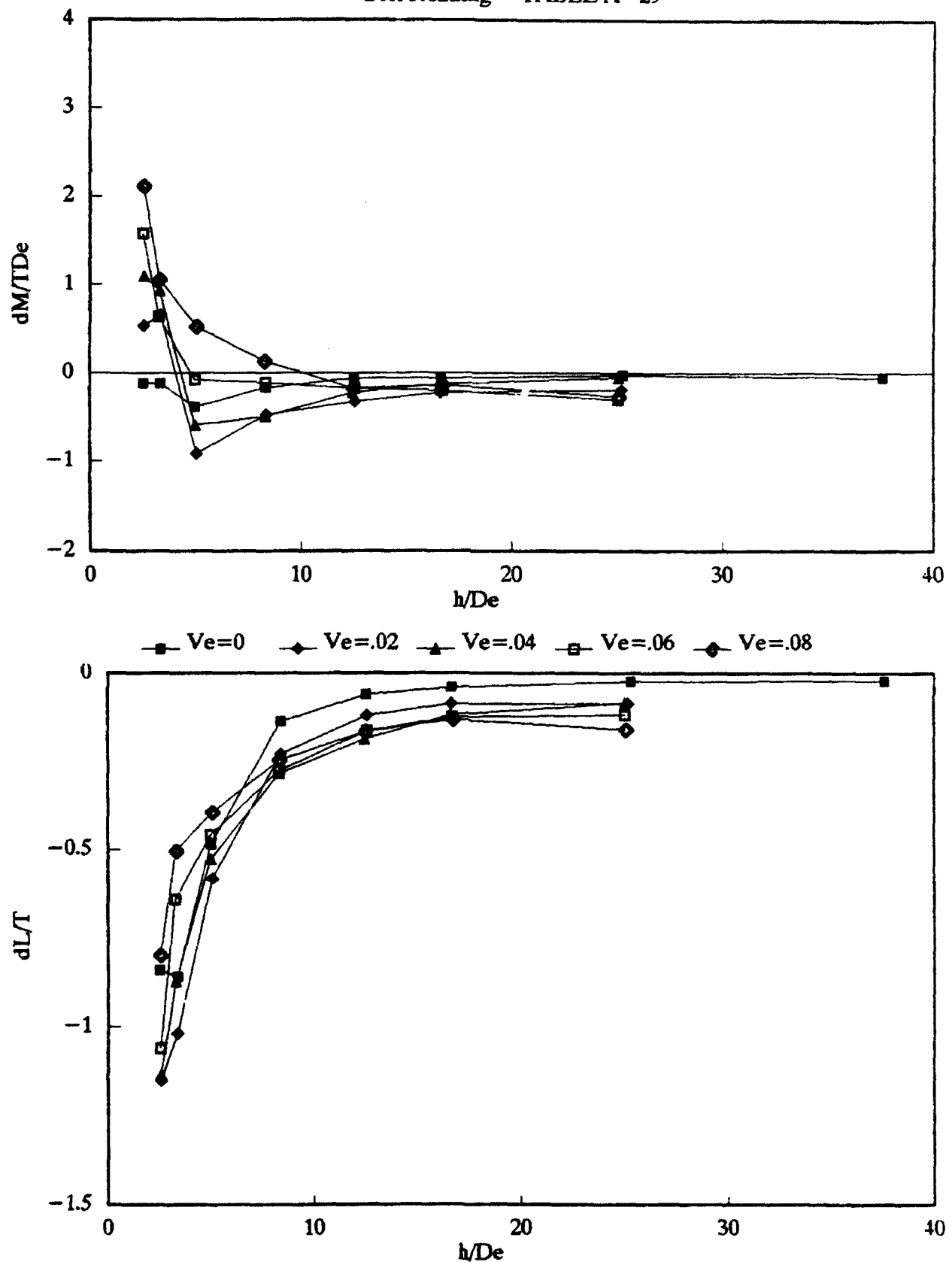


Figure A-29.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration I - Rear jet alone - NPR = 2;  
Belt running at tunnel speed.



# CONFIGURATION II - Both Jets - NPR = 2

Belt Running - TABLE A-30

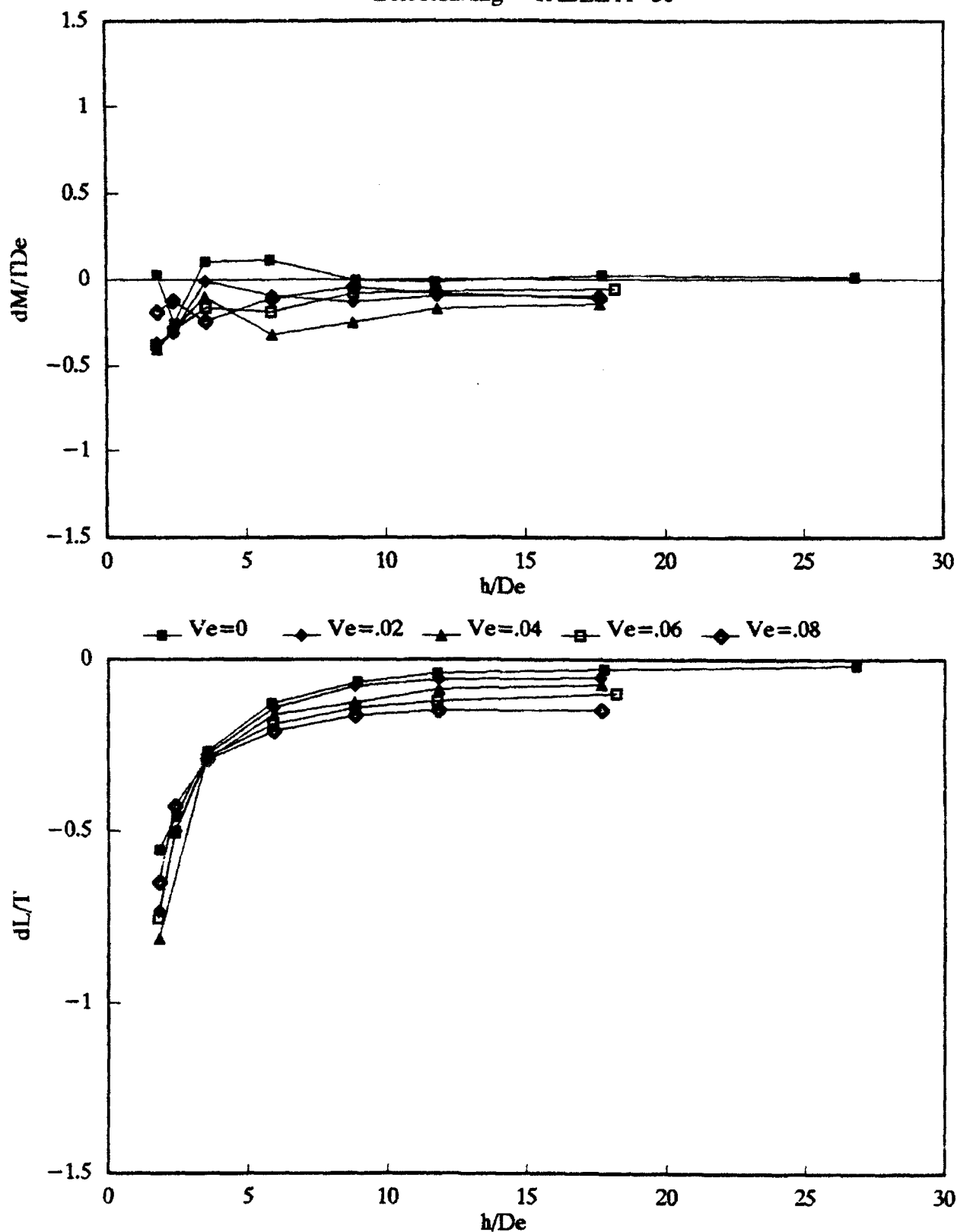


Figure A-30.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration II - Both jets - NPR = 2;  
Belt running at tunnel speed.

# CONFIGURATION VI – Both Jets – NPR = 2

Belt Running – TABLE A-31

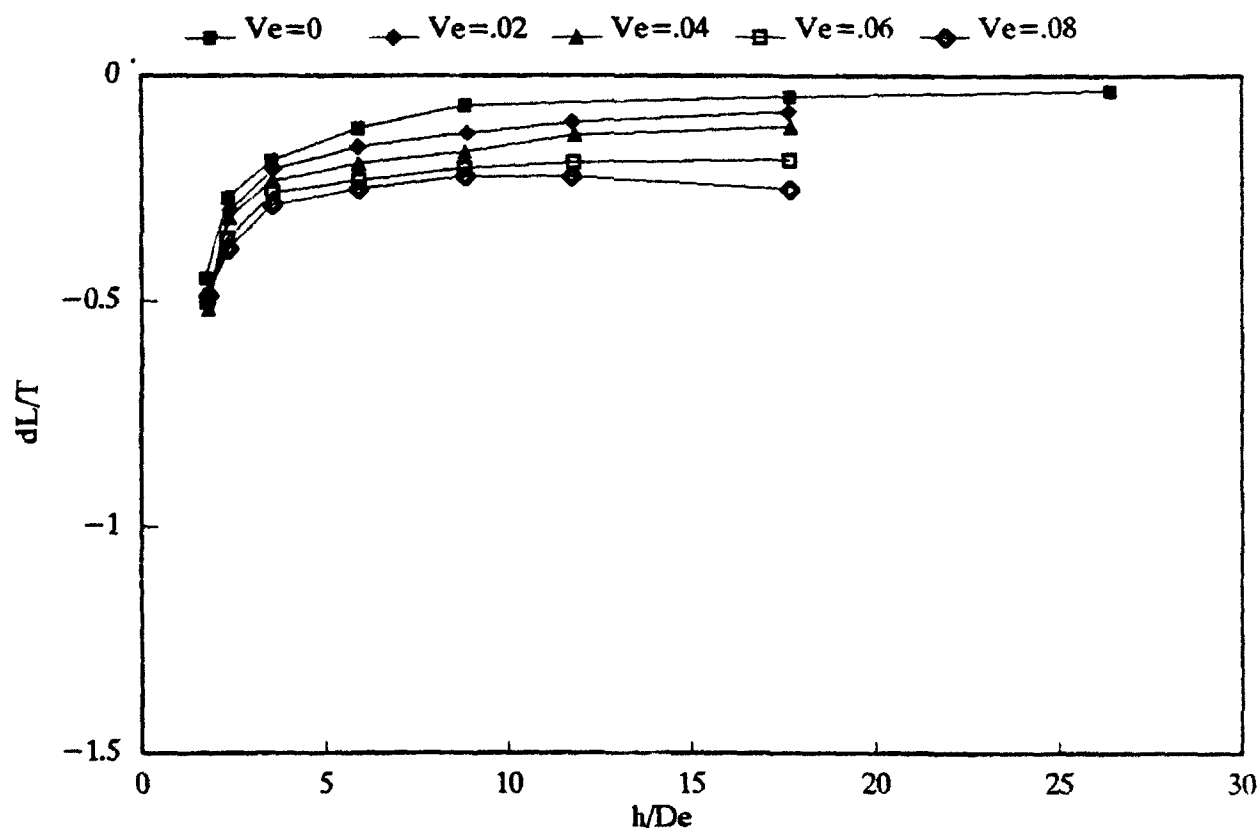
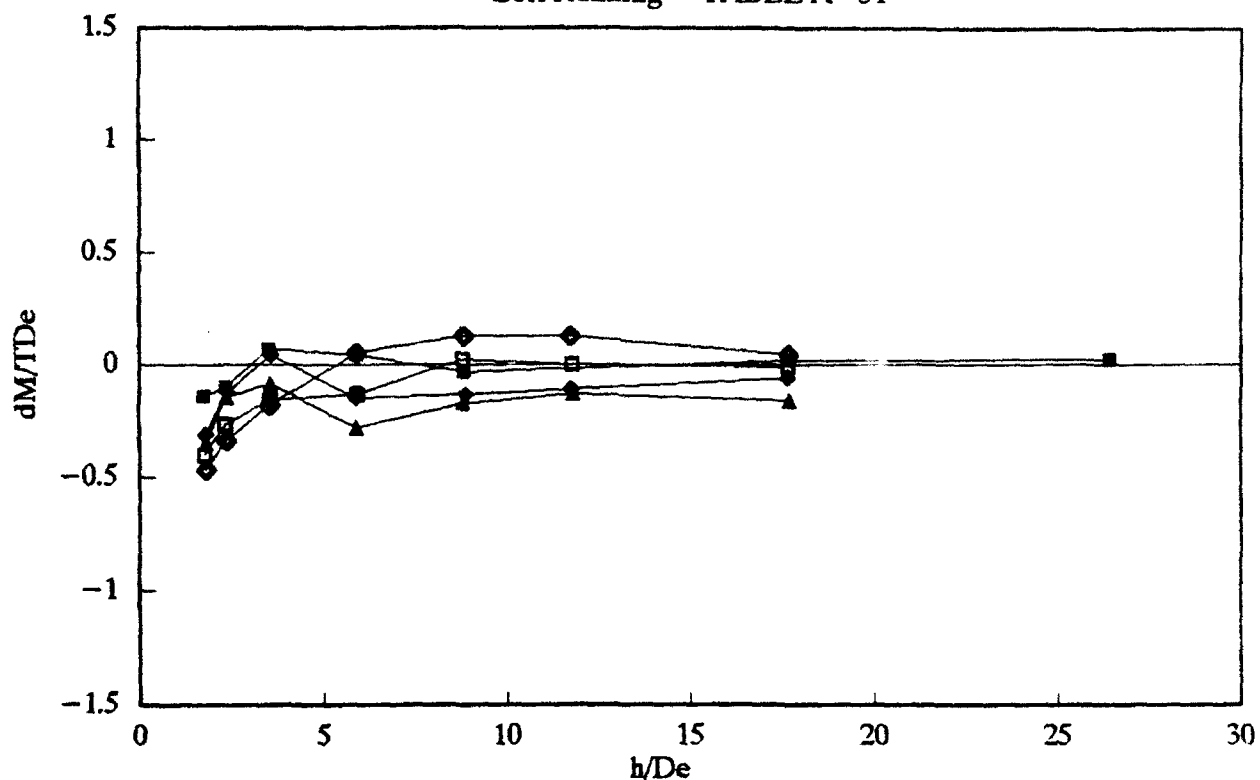


Figure A-31.- Effect of height and velocity ratio on jet induced increments of lift and pitching moment;  
Configuration VI - Both jets - NPR = 2;  
Belt running at tunnel speed.

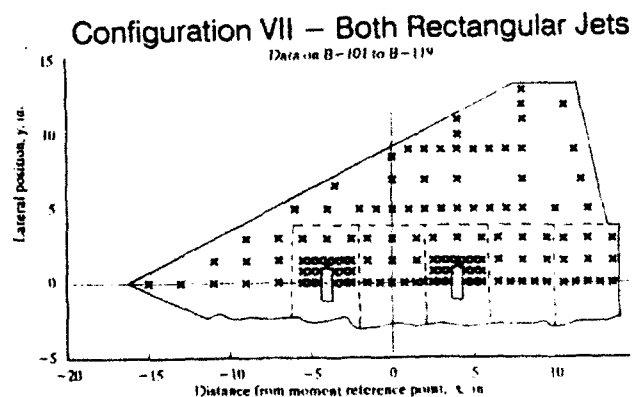
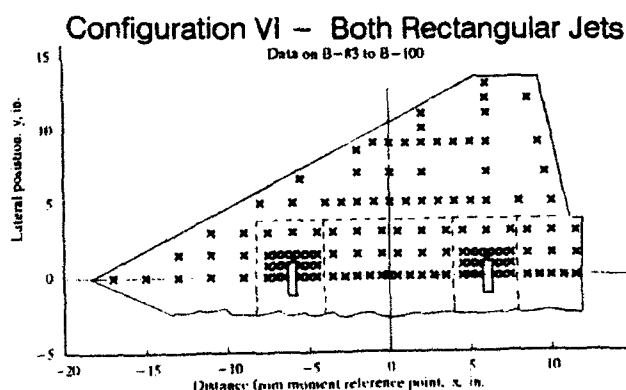
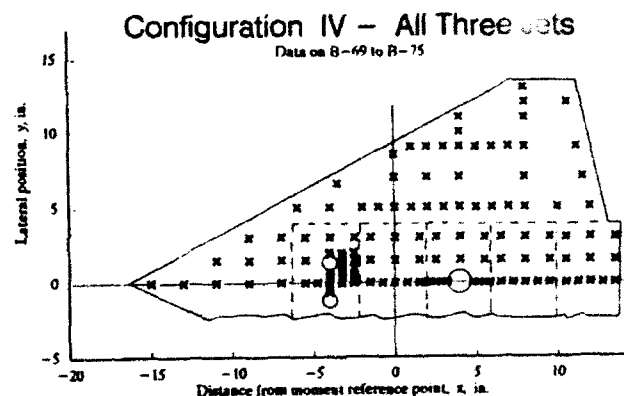
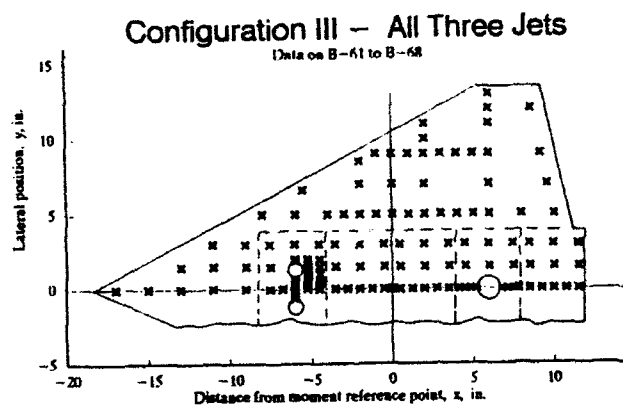
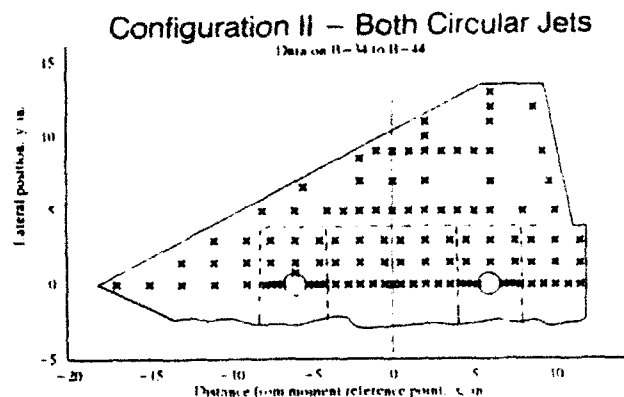
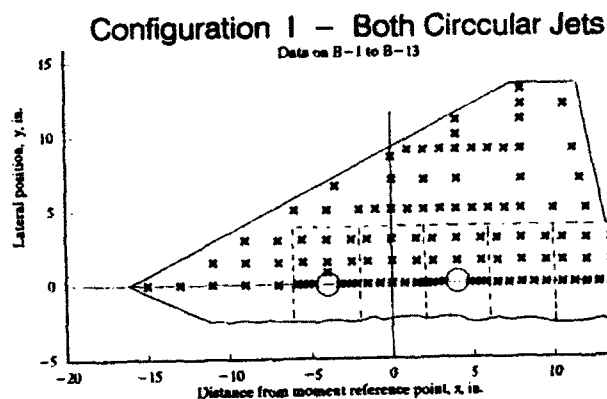
## APPENDIX B - PRESSURE DATA

The increments of pressure coefficient induced on the lower surface of the wing by the action of the jets are presented in this appendix. The table below gives an overview of the figures and tables on which the data for the various configurations are presented. The figures and tables for the corresponding force data presented in Appendix A are also indicated. The sketches on the next two pages (fig. B-0) show the pressure orifice distribution for each of the configurations. The x and y coordinants of the orifice are included on the tables presenting the pressure coefficients (Tables B-1 through B-127).

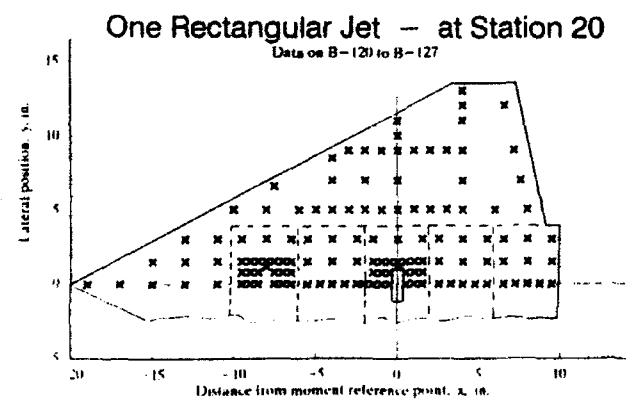
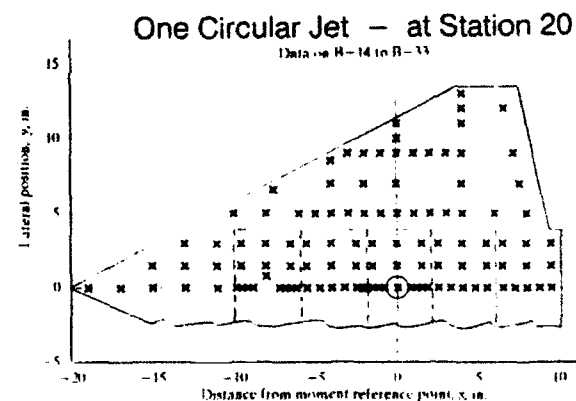
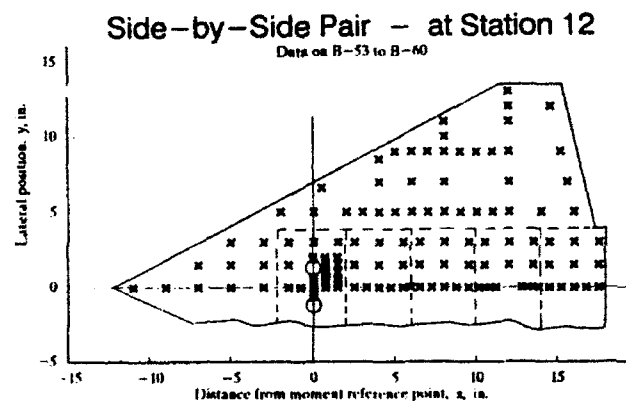
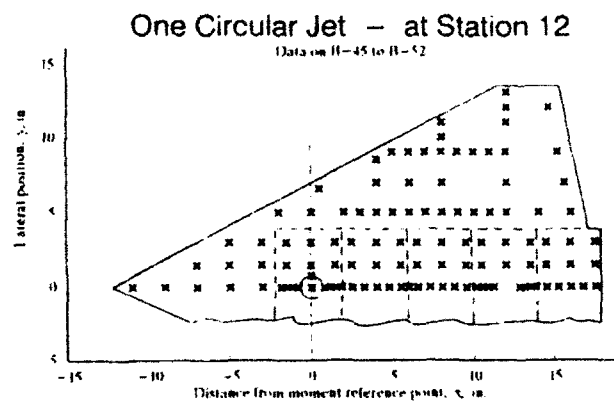
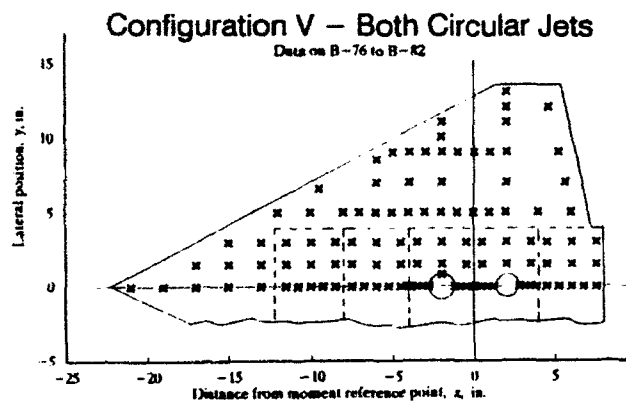
The lift and pitching moment increments induced by the jet(s) were determined from the pressure data by assigning an effective area and moment arm to each orifice (presented in figure B-128) and summing the associated increments of lift and moment calculated with these and the induced pressure increments. The integrated lift and pitching moment increments thus determined from the pressure data are compared with the corresponding force data at the bottom right of each table of pressure data. At the higher forward speeds the integrated pressure data and the balance data will not agree because the pressures on the upper surface were not measured and therefore are not included in the integration (fig. B-131)

A few pressure data points may be in error due to a local irregularity at the orifice or because a tube became disconnected or plugged. The most obvious of these have been eliminated or replaced in the plots. However all the pressure data points are presented in the tables.

Conf. & Jet(s)	NPR	Ve	h	ALPHA	Runs	Force Data on Table & Figure	Pressure Data on Table & Figure
I C12-C20	2	range	range	0	532-539	A-1	B-1 to B-7
"	4	"	"	"	615-617	A-2	B-8 to B-10
"	6	"	"	"	618-620	A-3	B-11 to B-13
C20 alone	2	"	"	"	520-527	A-4	B-14 to B-21
"	4	"	"	"	603-608	A-5	B-22 to B-27
"	6	"	"	"	609-614	A-6	B-28 to B-33
II C12-C24	2	"	"	"	540,543-548	A-7	B-34 to B-37
"	4	"	"	"	541,549-553	A-8	B-38 to B-43
"	6	0	"	"	542	A-9	B-44
C12 alone	2	range	"	"	588-595	A-10	B-45 to B-52
twin C12	2	"	"	"	572-579	A-11	B-53 to B-60
III twnC12-C24	2	"	"	"	580-587	A-12	B-61 to B-68
IV twnC12-C20	2	"	"	"	559-564	A-13	None
"	2	"	"	"	565-571 repeat	A-14	B-69 to B-75
V C20-C24	2	"	"	"	596-602	A-15	B-76 to B-82
VI R12-R24	2	"	"	"	471-474,487,490	A-16	B-83 to B-88
"	4	"	"	"	475-480	A-17	B-89 to B-94
"	6	"	"	"	481-486	A-18	B-95 to B-100
VII R12-R20	2	"	"	"	491-499	A-19	B-101 to B-107
"	4	"	"	"	500-505	A-20	B-108 to B-113
"	6	"	"	"	506-511	A-21	B-114 to B-119
R20 alone	2	"	"	"	512-519	A-22	B-120 to B-127



**Fig. B-0** Sketches showing the distribution of orifices on each configuration. Bottom view.



**Fig. B-0 Concluded.**

Run 532

### Force and Moment Summary

# h/Do = 283

Balance	$dL/T = -0.012$
Pressure	$dL/T = -0.001$
Balance	$dM/TDe = 0.037$
Pressure	$dM/TDe = -0.008$

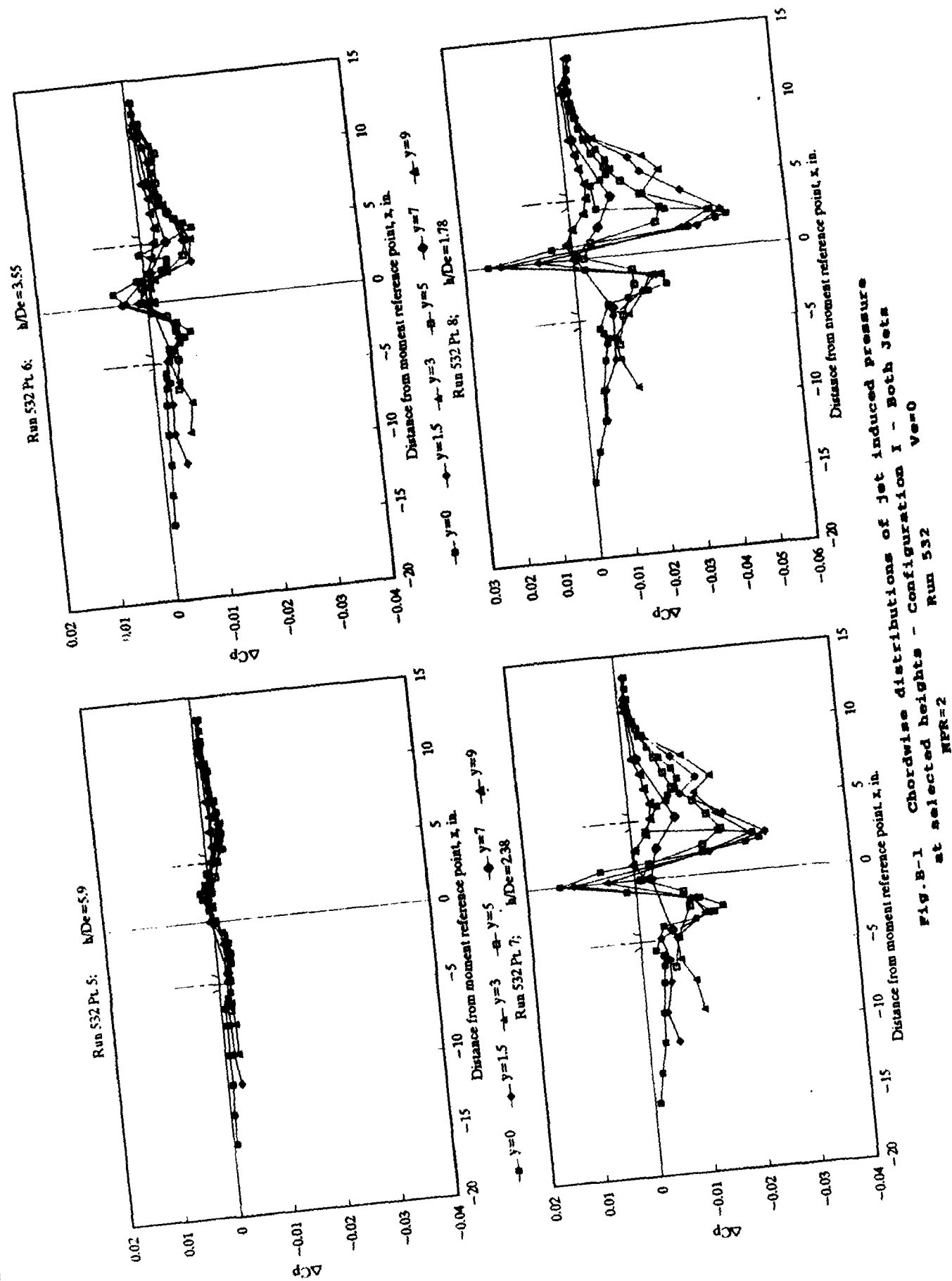
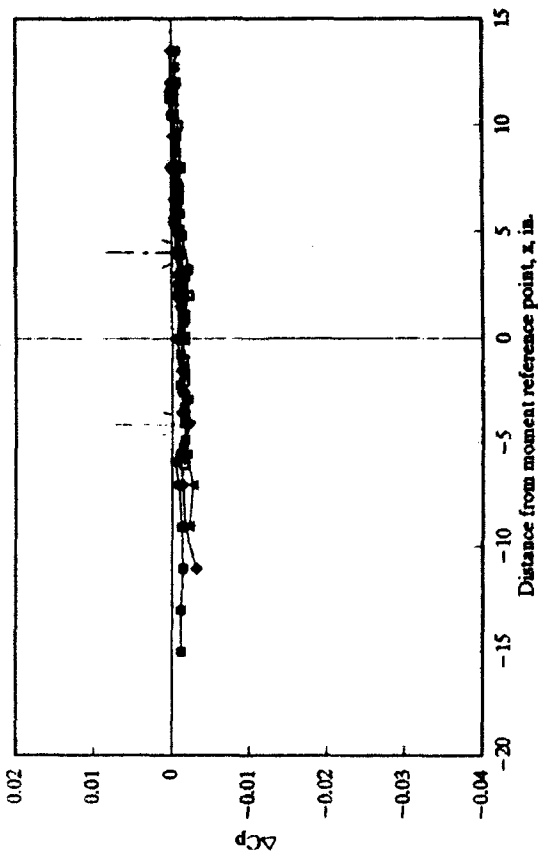


TABLE B-2 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=2  
Run 533 Ve=.02

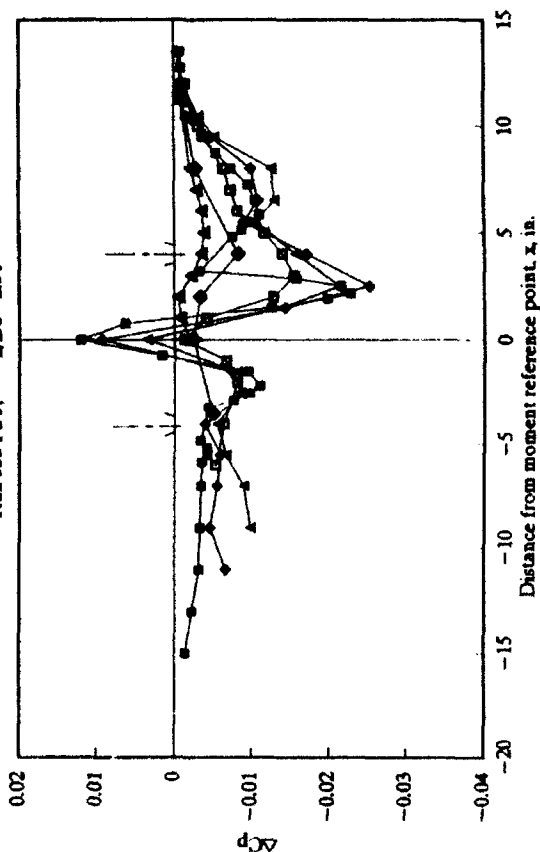
Point n/D <sub>e</sub> =	3	4	5	6	7	8	9	10	11	Point n/D <sub>e</sub> =	3	4	5	6	7	8	9	10	11
y	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	y	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-15	-0.0001	-0.0006	-0.0014	-0.0015	-0.0012	-0.0006	-0.0003	-0.0001	0	3	-5.5	-0.0161	-0.0089	-0.0050	-0.0006	-0.0005	-0.0003	-0.0004
1	-13	-0.0027	-0.0028	-0.0022	-0.0017	-0.0011	-0.0006	-0.0003	-0.0001	1	3	-4	-0.0223	-0.0118	-0.0085	-0.0040	-0.0008	-0.0004	-0.0006
2	-11	-0.0068	-0.0053	-0.0032	-0.0024	-0.0014	-0.0007	-0.0006	-0.0006	2	3	-2.5	-0.0330	-0.0163	-0.0095	-0.0030	-0.0001	-0.0002	-0.0004
3	-9	-0.0118	-0.0087	-0.0033	-0.0023	-0.0012	-0.0007	-0.0006	-0.0006	3	3	-1.5	-0.0423	-0.0186	-0.0082	-0.0043	-0.0008	-0.0007	-0.0005
4	-7	-0.0059	-0.0001	-0.0002	-0.0002	-0.0002	-0.0003	-0.0003	-0.0005	4	3	0	-0.0092	0.0077	0.0038	0.0016	-0.0007	-0.0005	-0.0004
5	-5.85	-0.0113	-0.0077	-0.0035	-0.0022	-0.0006	-0.0002	-0.0000	-0.0002	5	3	1.5	0.0002	0.0289	-0.0139	-0.0028	-0.0009	-0.0008	-0.0002
6	-5.5	-0.0117	-0.0075	-0.0043	-0.0025	-0.0012	-0.0006	-0.0006	-0.0007	6	3	2.5	-0.0072	-0.0388	-0.0214	-0.0087	-0.0014	-0.0003	-0.0007
7	-5.15	-0.0114	-0.0068	-0.0041	-0.0028	-0.0014	-0.0008	-0.0006	-0.0007	7	3	4	-0.0370	-0.0211	-0.0158	-0.0092	-0.0008	-0.0004	-0.0008
8	-4.8	-0.0108	-0.0065	-0.0043	-0.0028	-0.0017	-0.0015	-0.0016	-0.0015	8	3	5.5	-0.0281	-0.0257	-0.0195	-0.0089	-0.0008	-0.0003	-0.0011
9	-3.2	-0.0185	-0.0086	-0.0044	-0.0031	-0.0016	-0.0012	-0.0013	-0.0008	9	3	8.8	-0.0188	-0.0215	-0.0130	-0.0080	-0.0009	-0.0008	-0.0010
10	-2.85	-0.0220	-0.0135	-0.0077	-0.0038	-0.0021	-0.0015	-0.0014	-0.0011	10	3	9	-0.0127	-0.0082	-0.0053	-0.0032	-0.0008	-0.0004	-0.0012
11	-2.5	-0.0221	-0.0189	-0.0097	-0.0031	-0.0014	-0.0007	-0.0007	-0.0003	11	3	9.5	-0.0111	-0.0035	-0.0023	-0.0023	-0.0002	-0.0003	-0.0004
12	-2.15	-0.0288	-0.0233	-0.0110	-0.0038	-0.0011	-0.0004	-0.0003	-0.0002	12	3	10.8	-0.0108	-0.0032	-0.0033	-0.0023	-0.0003	-0.0002	-0.0002
13	-1.5	-0.0486	-0.0207	-0.0086	-0.0042	-0.0018	-0.0007	-0.0009	-0.0006	13	3	12	-0.0048	-0.0023	-0.0011	-0.0008	-0.0004	-0.0004	-0.0004
14	-0.75	-0.0368	-0.0005	-0.0017	-0.0023	-0.0011	-0.0002	-0.0001	-0.0000	14	3	13.5	-0.0021	-0.0019	-0.0003	-0.0004	-0.0002	-0.0004	-0.0002
15	0	0.0276	0.0217	0.0121	-0.0000	-0.0015	-0.0006	-0.0004	-0.0003	15	3	-6	-0.0211	-0.0104	-0.0063	-0.0034	-0.0004	-0.0004	-0.0002
16	0.75	0.0014	0.0017	0.0062	0.0024	-0.0015	-0.0007	-0.0006	-0.0005	16	3	-4	-0.0133	-0.0112	-0.0084	-0.0033	-0.0004	-0.0003	-0.0003
17	1.5	-0.0078	-0.0381	-0.0128	0.0010	-0.0013	-0.0007	-0.0008	-0.0008	17	3	-2	-0.0228	-0.0145	-0.0081	-0.0036	-0.0016	-0.0008	-0.0003
18	1.95	-0.0764	-0.0418	-0.0186	0.0012	-0.0012	-0.0006	-0.0004	-0.0003	18	3	-1	-0.0211	-0.0135	-0.0086	-0.0035	-0.0016	-0.0008	-0.0004
19	2.15	-0.0806	-0.0482	-0.0228	-0.0021	-0.0014	-0.0008	-0.0009	-0.0007	19	3	0	0.0082	0.0028	-0.0013	-0.0007	-0.0012	-0.0006	-0.0006
20	2.5	-0.0705	-0.0406	-0.0218	-0.0025	-0.0009	-0.0002	-0.0002	-0.0000	20	3	1	-0.0080	-0.0085	-0.0041	-0.0009	-0.0015	-0.0008	-0.0006
21	2.95	-0.0494	-0.0286	-0.0158	-0.0029	-0.0018	-0.0017	-0.0011	-0.0008	21	3	2	-0.0384	-0.0243	-0.0129	-0.0046	-0.0022	-0.0016	-0.0013
22	3.2	-0.0270	-0.0082	-0.0033	0.0007	-0.0022	-0.0018	-0.0016	-0.0012	22	3	3	-0.0258	-0.0248	-0.0156	-0.0063	-0.0018	-0.0012	-0.0010
23	4.8	-0.0150	-0.0060	-0.0037	0.0013	-0.0012	-0.0012	-0.0013	-0.0012	23	3	4	-0.0222	-0.0187	-0.0140	-0.0075	-0.0011	-0.0010	-0.0008
24	5.15	-0.0186	-0.0108	-0.0068	-0.0048	-0.0038	-0.0033	-0.0032	-0.0031	24	3	5	-0.0178	-0.0152	-0.0116	-0.0048	-0.0010	-0.0009	-0.0007
25	5.5	-0.0200	-0.0123	-0.0088	-0.0065	-0.0052	-0.0045	-0.0042	-0.0043	25	3	6	-0.0144	-0.0104	-0.0083	-0.0032	-0.0007	-0.0008	-0.0004
26	5.85	-0.0186	-0.0142	-0.0111	-0.0082	-0.0072	-0.0061	-0.0059	-0.0058	26	3	7	-0.0134	-0.0077	-0.0074	-0.0042	-0.0010	-0.0010	-0.0006
27	6.3	-0.0186	-0.0137	-0.0106	-0.0080	-0.0068	-0.0058	-0.0056	-0.0055	27	3	8	-0.0118	-0.0068	-0.0063	-0.0035	-0.0011	-0.0012	-0.0010
28	7.25	-0.0099	-0.0028	-0.0007	-0.0012	-0.0002	-0.0003	-0.0006	-0.0004	28	3	10	-0.0088	-0.0038	-0.0032	-0.0024	-0.0008	-0.0008	-0.0007
29	8	-0.0126	-0.0071	-0.0074	-0.0031	-0.0004	-0.0004	-0.0002	-0.0001	29	3	12	-0.0045	-0.0027	-0.0015	-0.0014	-0.0008	-0.0004	-0.0000
30	8.75	-0.0124	-0.0063	-0.0084	-0.0031	-0.0007	-0.0006	-0.0004	-0.0003	30	3	-3.5	-0.0104	-0.0084	-0.0080	-0.0031	-0.0014	-0.0005	-0.0003
31	9.5	-0.0123	-0.0044	-0.0038	-0.0029	-0.0007	-0.0006	-0.0006	-0.0006	31	3	0	0.0010	-0.0023	-0.0025	-0.0021	-0.0013	-0.0005	-0.0002
32	10.5	-0.0115	-0.0030	-0.0015	-0.0019	-0.0000	-0.0003	-0.0003	-0.0005	32	3	2	-0.0078	-0.0046	-0.0033	-0.0014	-0.0008	-0.0002	-0.0006
33	11.25	-0.0099	-0.0028	-0.0007	-0.0012	-0.0002	-0.0003	-0.0006	-0.0000	33	3	4	-0.0124	-0.0120	-0.0082	-0.0039	-0.0006	-0.0003	-0.0002
34	12	-0.0083	-0.0031	-0.0009	-0.0013	-0.0004	-0.0001	-0.0001	-0.0003	34	3	6	-0.0089	-0.0033	-0.0027	-0.0016	-0.0000	-0.0001	-0.0001
35	12.75	-0.0059	-0.0029	-0.0008	-0.0010	-0.0004	-0.0002	-0.0002	-0.0004	35	3	11.5	-0.0020	-0.0020	-0.0020	-0.0009	-0.0005	-0.0002	-0.0002
36	13.5	-0.0036	-0.0032	-0.0008	-0.0007	-0.0005	-0.0003	-0.0002	-0.0005	36	3	8.5	0	-0.0001	-0.0008	-0.0020	-0.0015	-0.0015	-0.0008
37	4	-0.0234	-0.0115	-0.0064	-0.0074	-0.0063	-0.0027	-0.0028	-0.0021	37	3	0	0.0008	0.0013	-0.0008	-0.0008	-0.0013	-0.0004	-0.0006
38	4	-0.0362	-0.0110	-0.0168	-0.0341	-0.0199	-0.0023	-0.0018	-0.0016	38	3	2	-0.0016	-0.0001	-0.0008	-0.0009	-0.0012	-0.0008	-0.0002
39	5	-0.0364	-0.0084	-0.0087	-0.0050	-0.0031	-0.0019	-0.0016	-0.0013	39	3	3	-0.0030	-0.0038	-0.0022	-0.0011	-0.0007	-0.0002	-0.0012
40	5	-0.0364	-0.0085	-0.0088	-0.0050	-0.0031	-0.0019	-0.0016	-0.0013	40	3	4	-0.0028	-0.0050	-0.0035	-0.0018	-0.0007	-0.0004	-0.0013
41	5	-7	-0.0146	-0.0098	-0.0046	-0.0030	-0.0018	-0.0010	-0.0008	41	3	5	0	-0.0062	-0.0042	-0.0021	-0.0008	-0.0007	-0.0011
42	5	-9	-0.0146	-0.0098	-0.0046	-0.0030	-0.0018	-0.0010	-0.0008	42	3	5	0	-0.0062	-0.0042	-0.0021	-0.0008	-0.0007	-0.0011
43	5	-5	-0.0127	-0.0089	-0.0040	-0.0031	-0.0011	-0.0003	-0.0002	43	3	6	-0.0020	-0.0047	-0.0036	-0.0020	-0.0005	-0.0004	-0.0010
44	5	-4	-0.0236	-0.0068	-0.0040	-0.0041	-0.0023	-0.0010	-0.0008	44	3	7	-0.0016	-0.0038	-0.0030	-0.0018	-0.0007	-0.0008	-0.0002
45	5	-2.5	-0.0316	-0.0172	-0.0091	-0.0031	-0.0017	-0.0008	-0.0005	45	3	8	-0.0010	-0.0027	-0.0021	-0.0012	-0.0002	-0.0004	-0.0001
46	5	-1.5	-0.0493	-0.0204	-0.0074	-0.0035	-0.0013	-0.0006	-0.0003	46	3	9	11.2	0.0000	-0.0015	-0.0009	-0.0005	-0.0002	-0.0017
47	5	0	0.0178	0.0093	0.0037	-0.0006	0.0000	0.0001	0.0003	47	3	10	4	-0.0018	-0.0027	-0.0025	-0.0016	-0.0010	-0.0008
48	5	1.5	-0.0477	-0.0343	-0.0144	-0.0060	-0.0011	-0.0007	-0.0004	48	3	11	4	-0.0010	-0.0011	-0.0013	-0.0011	-0.0011	-0.0011
49	5	2.5	-0.0460	-0.0431	-0.0263	-0.0048	-0.0010	-0.0009	-0.0003	49	3	12	8	-0.0002	-0.0016	-0.0018	-0.0011	-0.0007	-0.0001
50	5	4	-0.0000	0.0001	0.0002	-0.0000	0.0000	0.0001	0.0004	50	3	12	8	0.0002	-0.0002	-0.0004	-0.0004	-0.0002	-0.0002
51	5	5	-0.0365	-0.0227	-0.0080	-0.0075	-0.0004	-0.0003	-0.0002	51	3	12	10.8	0.0002	-0.0003	-0.0004	-0.0004	-0.0007	-0.0003
52	5	6	-0.0186	-0.0201	-0.0106	-0.0050	-0.0003	-0.0001	-0.0000	52	3	13	8	-0.0002	-0.0005	-0.0013	-0.0011	-0.0010	-0.0001
53	5	6	-0.0126	-0.0043	-0.0068	-0.0027	-0.0003	-0.0001	-0.0000	53	3	13	8	-0.0002	-0.0005	-0.0013	-0.0011	-0.0010	-0.0001
54	5	10.5	-0.0113	-0.0032	-0.0025	-0.0020	-0.0001	0.0001	0.0002	54	3	13	8	-0.0002	-0.0005	-0.0013	-0.0011	-0.0010	-0.0001
55	5	12	-0.0080	-0.0026	-0.0008	-0.0003	0.0000	0.0004	0.0007	55	3	Balance	n/D <sub>e</sub> =	1.75	2.36	3.54	5.92	8.83	11.83
56	5	13	-0.0028	-0.0029	-0.0005	-0.0003	0.0001	0.0003	0.0004	56	3	Pressure	dL/T =	-1.34	-0.839	-0.320	-0.118	-0.087	-0.087
57	5	13.5	-0.0168	-0.0148	-0.0056	-0.0022	-0.0003	-0.0002	-0.0000	57	3	Pressure	dM/TDe =	1.008	0.854	0.287	0.078	0.037	0.037
58	5	-7	-0.0163	-0.0108	-0.0090	-0.0058	-0.0028	-0.0013	-0.0010	58	3	Pressure	dM/TDe =	0.908	0.857	0.287	0.078	0.037	0.037



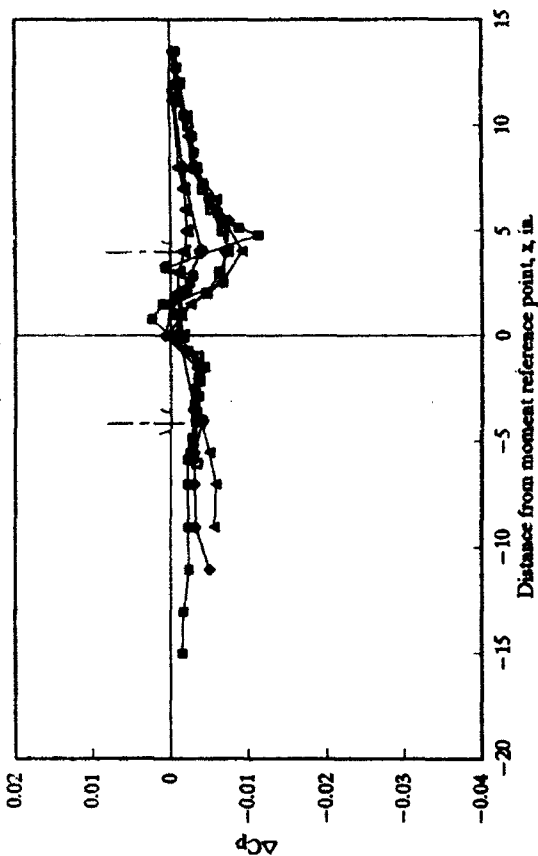
Run 533 Pl 7:  $h/De=5.92$



Run 533 Pl 5:  $h/De=2.36$



Run 533 Pl 6:  $h/De=3.54$



Run 533 Pl 4:  $h/De=1.75$

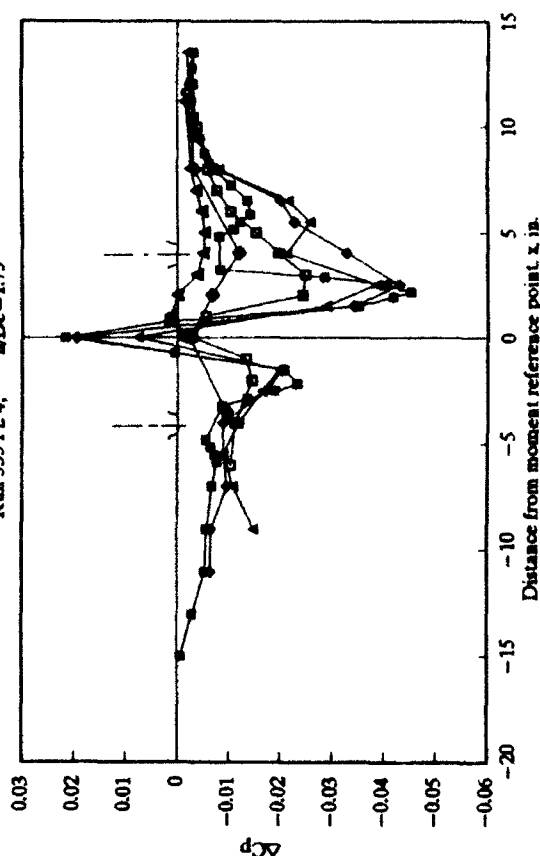
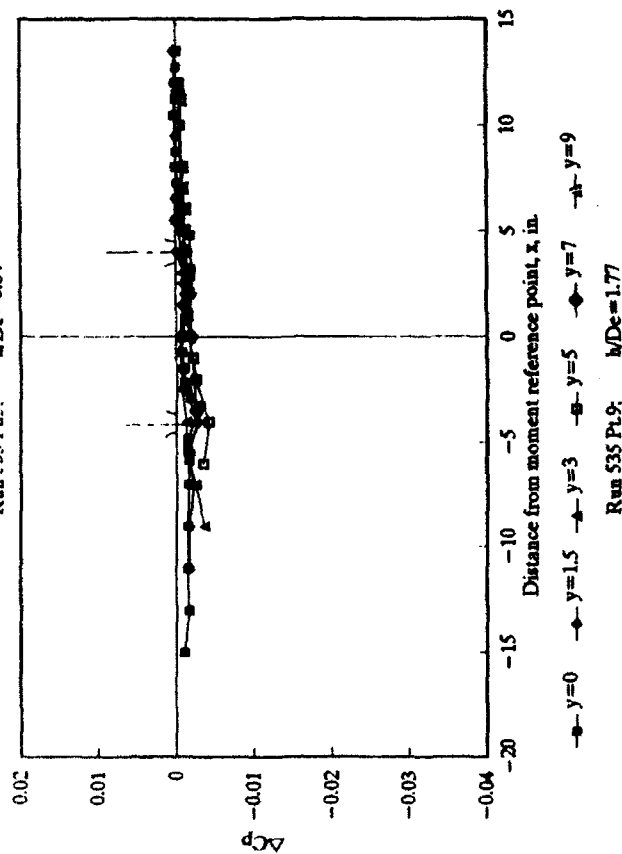


Fig. B-2 Chordwise distributions of jet induced pressure at selected heights - Configuration I - Both Jets  
NPR=2 Run 533  $Ve=.02$

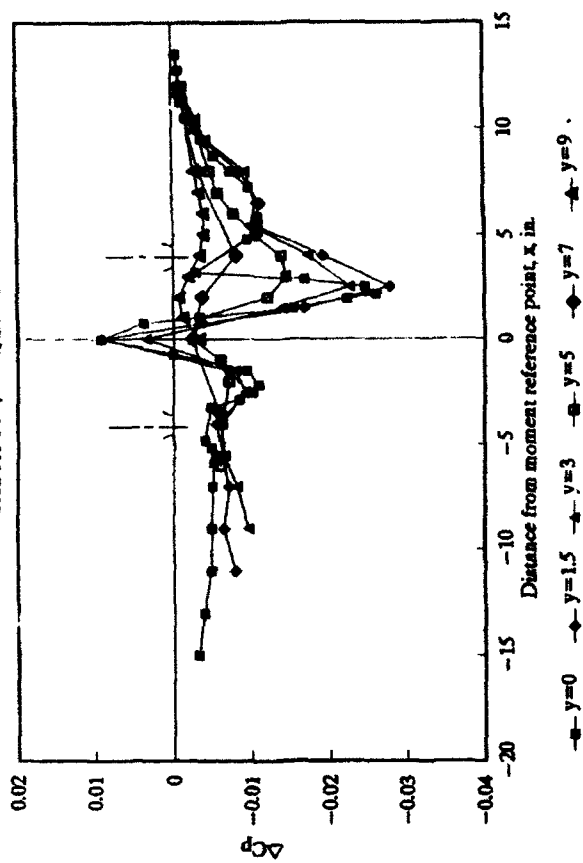
TABLE B-3 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=2  
Run 535  
Ve=.04

Point N/D =	2	3	4	5	6	7	8	9	10	Point N/D =	2	3	4	5	6	7	8	9	10
h/D =	25.79	17.59	11.76	8.84	2.4	1.77	1.17	0.84	0.54	h/D =	25.79	17.59	11.76	8.84	2.4	1.77	1.17	0.84	0.54
x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-0.0001	-0.0003	-0.0005	-0.0011	-0.0032	-0.0017	-0.0018	-0.0018	-0.0018	3	-0.0007	-0.0008	-0.0010	-0.0014	-0.0045	-0.0045	-0.0045	-0.0045	-0.0045
0	-0.0005	-0.0007	-0.0010	-0.0016	-0.0036	-0.0042	-0.0043	-0.0043	-0.0043	3	-0.0010	-0.0011	-0.0012	-0.0014	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042
0	-0.0010	-0.0012	-0.0015	-0.0021	-0.0041	-0.0047	-0.0048	-0.0048	-0.0048	3	-0.0015	-0.0016	-0.0017	-0.0019	-0.0047	-0.0047	-0.0047	-0.0047	-0.0047
0	-0.0015	-0.0017	-0.0020	-0.0026	-0.0046	-0.0052	-0.0053	-0.0053	-0.0053	3	-0.0020	-0.0021	-0.0022	-0.0024	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052
0	-0.0020	-0.0022	-0.0025	-0.0031	-0.0051	-0.0057	-0.0058	-0.0058	-0.0058	3	-0.0025	-0.0026	-0.0027	-0.0029	-0.0057	-0.0057	-0.0057	-0.0057	-0.0057
0	-0.0025	-0.0027	-0.0030	-0.0036	-0.0056	-0.0062	-0.0063	-0.0063	-0.0063	3	-0.0030	-0.0031	-0.0032	-0.0034	-0.0062	-0.0062	-0.0062	-0.0062	-0.0062
0	-0.0030	-0.0032	-0.0035	-0.0041	-0.0061	-0.0067	-0.0068	-0.0068	-0.0068	3	-0.0035	-0.0036	-0.0037	-0.0039	-0.0067	-0.0067	-0.0067	-0.0067	-0.0067
0	-0.0035	-0.0037	-0.0040	-0.0046	-0.0066	-0.0072	-0.0073	-0.0073	-0.0073	3	-0.0040	-0.0041	-0.0042	-0.0044	-0.0072	-0.0072	-0.0072	-0.0072	-0.0072
0	-0.0040	-0.0042	-0.0045	-0.0051	-0.0071	-0.0077	-0.0078	-0.0078	-0.0078	3	-0.0045	-0.0046	-0.0047	-0.0049	-0.0077	-0.0077	-0.0077	-0.0077	-0.0077
0	-0.0045	-0.0047	-0.0050	-0.0056	-0.0076	-0.0082	-0.0083	-0.0083	-0.0083	3	-0.0050	-0.0051	-0.0052	-0.0054	-0.0082	-0.0082	-0.0082	-0.0082	-0.0082
0	-0.0050	-0.0052	-0.0055	-0.0061	-0.0081	-0.0087	-0.0088	-0.0088	-0.0088	3	-0.0055	-0.0056	-0.0057	-0.0059	-0.0087	-0.0087	-0.0087	-0.0087	-0.0087
0	-0.0055	-0.0057	-0.0060	-0.0066	-0.0086	-0.0092	-0.0093	-0.0093	-0.0093	3	-0.0060	-0.0061	-0.0062	-0.0064	-0.0092	-0.0092	-0.0092	-0.0092	-0.0092
0	-0.0060	-0.0062	-0.0065	-0.0071	-0.0091	-0.0097	-0.0098	-0.0098	-0.0098	3	-0.0065	-0.0066	-0.0067	-0.0069	-0.0097	-0.0097	-0.0097	-0.0097	-0.0097
0	-0.0065	-0.0067	-0.0070	-0.0076	-0.0096	-0.0102	-0.0103	-0.0103	-0.0103	3	-0.0070	-0.0071	-0.0072	-0.0074	-0.0102	-0.0102	-0.0102	-0.0102	-0.0102
0	-0.0070	-0.0072	-0.0075	-0.0081	-0.0101	-0.0107	-0.0108	-0.0108	-0.0108	3	-0.0075	-0.0076	-0.0077	-0.0079	-0.0107	-0.0107	-0.0107	-0.0107	-0.0107
0	-0.0075	-0.0077	-0.0080	-0.0086	-0.0106	-0.0112	-0.0113	-0.0113	-0.0113	3	-0.0080	-0.0081	-0.0082	-0.0084	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106
0	-0.0080	-0.0082	-0.0085	-0.0091	-0.0111	-0.0117	-0.0118	-0.0118	-0.0118	3	-0.0085	-0.0086	-0.0087	-0.0089	-0.0111	-0.0111	-0.0111	-0.0111	-0.0111
0	-0.0085	-0.0087	-0.0090	-0.0096	-0.0116	-0.0122	-0.0123	-0.0123	-0.0123	3	-0.0090	-0.0091	-0.0092	-0.0094	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116
0	-0.0090	-0.0092	-0.0095	-0.0101	-0.0121	-0.0127	-0.0128	-0.0128	-0.0128	3	-0.0095	-0.0096	-0.0097	-0.0099	-0.0121	-0.0121	-0.0121	-0.0121	-0.0121
0	-0.0095	-0.0097	-0.0100	-0.0106	-0.0126	-0.0132	-0.0133	-0.0133	-0.0133	3	-0.0100	-0.0101	-0.0102	-0.0104	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126
0	-0.0100	-0.0102	-0.0105	-0.0111	-0.0131	-0.0137	-0.0138	-0.0138	-0.0138	3	-0.0105	-0.0106	-0.0107	-0.0109	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131
0	-0.0105	-0.0107	-0.0110	-0.0116	-0.0136	-0.0142	-0.0143	-0.0143	-0.0143	3	-0.0110	-0.0111	-0.0112	-0.0114	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136
0	-0.0110	-0.0112	-0.0115	-0.0121	-0.0141	-0.0147	-0.0148	-0.0148	-0.0148	3	-0.0115	-0.0116	-0.0117	-0.0119	-0.0141	-0.0141	-0.0141	-0.0141	-0.0141
0	-0.0115	-0.0117	-0.0120	-0.0126	-0.0146	-0.0152	-0.0153	-0.0153	-0.0153	3	-0.0120	-0.0121	-0.0122	-0.0124	-0.0146	-0.0146	-0.0146	-0.0146	-0.0146
0	-0.0120	-0.0122	-0.0125	-0.0131	-0.0151	-0.0157	-0.0158	-0.0158	-0.0158	3	-0.0125	-0.0126	-0.0127	-0.0129	-0.0151	-0.0151	-0.0151	-0.0151	-0.0151
0	-0.0125	-0.0127	-0.0130	-0.0136	-0.0156	-0.0162	-0.0163	-0.0163	-0.0163	3	-0.0130	-0.0131	-0.0132	-0.0134	-0.0156	-0.0156	-0.0156	-0.0156	-0.0156
0	-0.0130	-0.0132	-0.0135	-0.0141	-0.0161	-0.0167	-0.0168	-0.0168	-0.0168	3	-0.0135	-0.0136	-0.0137	-0.0139	-0.0161	-0.0161	-0.0161	-0.0161	-0.0161
0	-0.0135	-0.0137	-0.0140	-0.0146	-0.0166	-0.0172	-0.0173	-0.0173	-0.0173	3	-0.0140	-0.0141	-0.0142	-0.0144	-0.0166	-0.0166	-0.0166	-0.0166	-0.0166
0	-0.0140	-0.0142	-0.0145	-0.0151	-0.0171	-0.0177	-0.0178	-0.0178	-0.0178	3	-0.0145	-0.0146	-0.0147	-0.0149	-0.0171	-0.0171	-0.0171	-0.0171	-0.0171
0	-0.0145	-0.0147	-0.0150	-0.0156	-0.0176	-0.0182	-0.0183	-0.0183	-0.0183	3	-0.0150	-0.0151	-0.0152	-0.0154	-0.0176	-0.0176	-0.0176	-0.0176	-0.0176
0	-0.0150	-0.0152	-0.0155	-0.0161	-0.0181	-0.0187	-0.0188	-0.0188	-0.0188	3	-0.0155	-0.0156	-0.0157	-0.0159	-0.0181	-0.0181	-0.0181	-0.0181	-0.0181
0	-0.0155	-0.0157	-0.0160	-0.0166	-0.0186	-0.0192	-0.0193	-0.0193	-0.0193	3	-0.0160	-0.0161	-0.0162	-0.0164	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186
0	-0.0160	-0.0162	-0.0165	-0.0171	-0.0191	-0.0197	-0.0198	-0.0198	-0.0198	3	-0.0165	-0.0166	-0.0167	-0.0169	-0.0191	-0.0191	-0.0191	-0.0191	-0.0191
0	-0.0165	-0.0167	-0.0170	-0.0176	-0.0196	-0.0202	-0.0203	-0.0203	-0.0203	3	-0.0170	-0.0171	-0.0172	-0.0174	-0.0196	-0.0196	-0.0196	-0.0196	-0.0196
0	-0.0170	-0.0172	-0.0175	-0.0181	-0.0201	-0.0207	-0.0208	-0.0208	-0.0208	3	-0.0175	-0.0176	-0.0177	-0.0179	-0.0201	-0.0201	-0.0201	-0.0201	-0.0201
0	-0.0175	-0.0177	-0.0180	-0.0186	-0.0206	-0.0212	-0.0213	-0.0213	-0.0213	3	-0.0180	-0.0181	-0.0182	-0.0184	-0.0206	-0.0206	-0.0206	-0.0206	-0.0206
0	-0.0180	-0.0182	-0.0185	-0.0191	-0.0211	-0.0217	-0.0218	-0.0218	-0.0218	3	-0.0185	-0.0186	-0.0187	-0.0189	-0.0211	-0.0211	-0.0211	-0.0211	-0.0211
0	-0.0185	-0.0187	-0.0190	-0.0196	-0.0216	-0.0222	-0.0223	-0.0223	-0.0223	3	-0.0190	-0.0191	-0.0192	-0.0194	-0.0216	-0.0216	-0.0216	-0.0216	-0.0216
0	-0.0190	-0.0192	-0.0195	-0.0201	-0.0221	-0.0227	-0.0228	-0.0228	-0.0228	3	-0.0195	-0.0196	-0.0197	-0.0199	-0.0221	-0.0221	-0.0221	-0.0221	-0.0221
0	-0.0195	-0.0197	-0.0200	-0.0206	-0.0226	-0.0232	-0.0233	-0.0233	-0.0233	3	-0.0200	-0.0201	-0.0202	-0.0204	-0.0226	-0.0226	-0.0226	-0.0226	-0.0226
0	-0.0200	-0.0202	-0.0205	-0.0211	-0.0231	-0.0237	-0.0238	-0.0238	-0.0238	3	-0.0205	-0.0206	-0.0207	-0.0209	-0.0231	-0.0231	-0.0231	-0.0231	-0.0231
0	-0.0205	-0.0207	-0.0210	-0.0216	-0.0236	-0.0242	-0.0243	-0.0243	-0.0243	3	-0.0210	-0.0211	-0.0212	-0.0214	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236
0	-0.0210	-0.0212	-0.0215	-0.0221	-0.0241	-0.0247	-0.0248	-0.0248	-0.0248	3	-0.0215	-0.0216	-0.0217	-0.0219	-0.0241	-0.0241	-0.0241	-0.0241	-0.0241
0	-0.0215	-0.0217	-0.0220	-0.0226	-0.0246	-0.0252	-0.0253	-0.0253	-0.0253	3	-0.0220	-0.0221	-0.0222	-0.0224	-0.0246	-0.0246	-0.0246	-0.0246	-0.0246
0	-0.0220	-0.0222	-0.0225	-0.0231	-0.0251	-0.0257	-0.0258	-0.0258	-0.0258	3	-0.0225	-0.0226	-0.0227	-0.0229	-0.0251	-0.0251	-0.0251	-0.0251	-0.0251
0	-0.0225	-0.0227	-0.0230	-0.0236	-0.0256	-0.0262	-0.0263	-0.0263	-0.0263	3	-0.0230	-0.0231	-0.0232	-0.0234	-0.0256	-0.0256	-0.0256	-0.0256	-0.0256
0	-0.0230	-0.0232	-0.0235	-0.0241	-0.0261	-0.0267	-0.0268	-0.0268	-0.0268	3	-0.0235	-0.0236	-0.0237	-0.0239	-0.0261	-0.0261	-0.0261	-0.0261	-0.0261
0	-0.0235	-0.0237	-0.0240	-0.0246	-0.0266	-0.0272	-0.0273	-0.0273	-0.0273	3	-0.0240	-0.0241	-0.0242	-0.0244	-0.0266	-0.0266	-0.0266	-0.0266	-0.0266
0	-0.0240	-0.0242	-0.0245	-0.0251	-0.0271	-0.0277	-0.0278	-0.0278	-0.0278	3	-0.0245	-0.0246	-0.0247	-0.0249	-0.0271	-0.0271	-0.0271	-0.0271	-0.0271
0	-0.0245	-0.0247	-0.0250	-0.0256	-0.0276	-0.0282	-0.0283	-0.0283	-0.0283	3	-0.0250	-0.0251	-0.0252	-0.0254	-0.0276	-0.0276	-0.0276	-0.0276	-0.0276
0	-0.0250	-0.0252	-0.0255	-0.0261	-0.0281	-0.0287	-0.0288	-0.0288	-0.0288	3	-0.0255	-0.0256	-0.0257	-0.0259	-0.0281	-0.0281	-0.0281	-0.0281	-0.0281
0	-0.0255	-0.0257	-0.0260	-0.0266	-0.0286	-0.0292	-0.0293	-0.0293	-0.0293	3	-0.0260	-0.0261	-0.0262	-0.0264	-0.0286	-0.0286	-0.0286	-0.0286	-0.0286
0	-0.0260	-0.0262	-0.0265	-0.0271	-0.0291	-0.0297	-0.0298	-0.0298	-0.0298	3	-0.0265	-0.0266	-0.0267	-0.0269	-0.0291	-0.0291	-0.0291	-0.0291	-0.0291
0	-0.0265	-0.0267	-0.0270	-0.0276	-0.0296	-0.0302	-0.0303	-0.0303	-0.0303	3	-0.0270	-0.0271	-0.0272	-0.0274	-0.0296	-0.0296	-0.0296	-0.0296	-0.0296
0	-0.0270	-0.0272	-0.0275	-0.0281	-0.0301	-0.0307	-0.0308	-0.0308	-0.0308	3	-0.0275	-0.0							

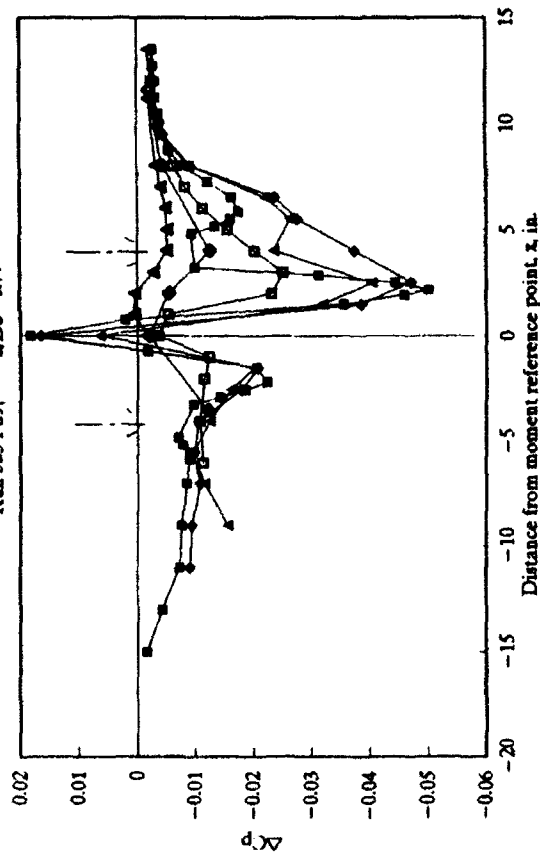
Run 535 Pt.5:  $h/De=8.84$



Run 535 Pt.8:  $h/De=2.4$



Run 535 Pt.9:  $h/De=1.77$



Run 535 Pt.10:  $h/De=1.17$

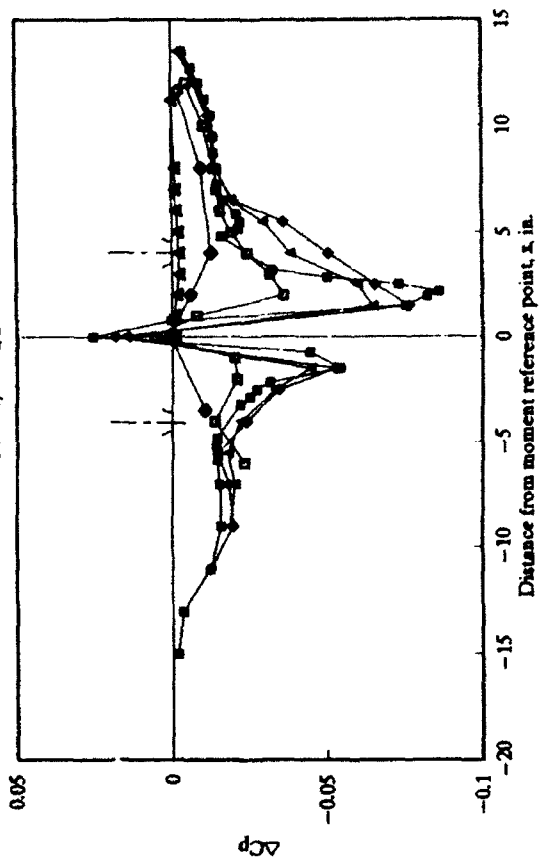


Fig. B-3 Chordwise distributions of jet induced pressure  
at selected heights - Configuration I - Both Jets  
NPR=2 Run 535  $Ve=0.4$

TABLE B-4 JET INDUCED PRESSURE INCREMENTS

Configuration I - Both Jets - NPR=2

Run 536

Ve=0.06

Point	1	2	3	4	5	6	7	8	9
h/D <sub>0</sub> =	1.17	1.75	2.35	3.53	5.83	8.83	17.66	26.68	
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-15	-0.0028	-0.0048	-0.0081	-0.0048	-0.0013	-0.0004	-0.0001	-0.0001
0	-13	-0.0087	-0.0086	-0.0070	-0.0063	-0.0028	-0.0011	-0.0006	-0.0006
0	-11	-0.0184	-0.0096	-0.0078	-0.0068	-0.0036	-0.0017	-0.0010	-0.0008
0	-9	-0.0233	-0.0084	-0.0048	-0.0045	-0.0030	-0.0018	-0.0012	-0.0011
0	-7	-0.0051	-0.0010	-0.0008	-0.0004	-0.0006	-0.0004	-0.0002	-0.0002
0	-5.8	-0.0206	-0.0062	-0.0048	-0.0030	-0.0028	-0.0018	-0.0012	-0.0011
0	-5.5	-0.0206	-0.0064	-0.0062	-0.0037	-0.0027	-0.0028	-0.0017	-0.0017
0	-5.1	-0.0202	-0.0066	-0.0066	-0.0036	-0.0017	-0.0018	-0.0013	-0.0013
0	-4.8	-0.0206	-0.0066	-0.0064	-0.0028	-0.0016	-0.0018	-0.0012	-0.0011
0	-3.2	-0.0266	-0.0101	-0.0081	-0.0054	-0.0073	-0.0068	-0.0054	-0.0065
0	-2.8	-0.0266	-0.0180	-0.0087	-0.0048	-0.0064	-0.0048	-0.0035	-0.0031
0	-2.5	-0.0237	-0.0182	-0.0094	-0.0034	-0.0036	-0.0033	-0.0022	-0.0019
0	-2.1	-0.0341	-0.0181	-0.0091	-0.0027	-0.0027	-0.0029	-0.0018	-0.0014
0	-1.8	-0.0536	-0.0135	-0.0087	-0.0028	-0.0021	-0.0021	-0.0016	-0.0012
0	-0.7	-0.0466	-0.0003	-0.0028	-0.0021	-0.0016	-0.0018	-0.0016	-0.0012
0	0	0.0204	0.0182	0.0059	-0.0025	-0.0020	-0.0023	-0.0019	-0.0014
0	0.7	-0.0046	-0.0011	0.0020	-0.0031	-0.0023	-0.0024	-0.0020	-0.0016
0	1.5	-0.0766	-0.0374	-0.0197	-0.0032	-0.0054	-0.0026	-0.0022	-0.0017
0	1.9	-0.0668	-0.0457	-0.0228	-0.0034	-0.0028	-0.0028	-0.0019	-0.0017
0	2.1	-0.0803	-0.0501	-0.0263	-0.0036	-0.0030	-0.0026	-0.0019	-0.0020
0	2.5	-0.0786	-0.0439	-0.0234	-0.0031	-0.0028	-0.0023	-0.0017	-0.0017
0	2.8	-0.0641	-0.0302	-0.0163	-0.0031	-0.0029	-0.0031	-0.0025	-0.0025
0	3.2	-0.0365	-0.0098	-0.0118	-0.0032	-0.0029	-0.0032	-0.0021	-0.0024
0	4.8	-0.0199	-0.0118	-0.0122	-0.0068	-0.0059	-0.0048	-0.0035	-0.0025
0	5.1	-0.0250	-0.0160	-0.0134	-0.0059	-0.0041	-0.0028	-0.0024	-0.0014
0	5.5	-0.0255	-0.0164	-0.0128	-0.0039	-0.0028	-0.0018	-0.0013	-0.0008
0	5.8	-0.0250	-0.0196	-0.0117	-0.0031	-0.0023	-0.0017	-0.0013	-0.0007
0	6.5	-0.0206	-0.0174	-0.0101	-0.0032	-0.0022	-0.0016	-0.0008	-0.0006
0	7.2	-0.0182	-0.0135	-0.0091	-0.0027	-0.0022	-0.0015	-0.0008	-0.0006
0	8	-0.0187	-0.0077	-0.0072	-0.0019	-0.0016	-0.0010	-0.0003	-0.0002
0	8.7	-0.0164	-0.0062	-0.0055	-0.0018	-0.0017	-0.0012	-0.0006	-0.0004
0	9.5	-0.0164	-0.0037	-0.0037	-0.0016	-0.0016	-0.0012	-0.0006	-0.0006
0	10.5	-0.0154	-0.0028	-0.0020	-0.0009	-0.0009	-0.0006	-0.0001	-0.0000
0	11.2	-0.0142	-0.0023	-0.0012	-0.0008	-0.0010	-0.0008	-0.0002	-0.0001
0	12	-0.0127	-0.0023	-0.0008	-0.0006	-0.0010	-0.0008	-0.0003	-0.0002
0	12.7	-0.0103	-0.0022	-0.0008	-0.0006	-0.0010	-0.0010	-0.0004	-0.0003
0	13.5	-0.0078	-0.0021	-0.0008	-0.0006	-0.0008	-0.0008	-0.0003	-0.0002
0.8	4	-0.0233	-0.0104	-0.0090	-0.0109	-0.0110	-0.0138	-0.0107	-0.0100
0.8	4	-0.0481	-0.0137	-0.0276	-0.0320	-0.0081	-0.0077	-0.0081	-0.0068
1.5	-11	-0.0197	-0.0124	-0.0110	-0.0071	-0.0036	-0.0020	-0.0012	-0.0012
1.5	-9	-0.0264	-0.0118	-0.0087	-0.0055	-0.0038	-0.0021	-0.0012	-0.0012
1.5	-7	-0.0238	-0.0116	-0.0078	-0.0060	-0.0036	-0.0028	-0.0022	-0.0021
1.5	-5.5	-0.0204	-0.0098	-0.0083	-0.0038	-0.0028	-0.0027	-0.0021	-0.0019
1.5	-4	-0.0260	-0.0108	-0.0065	-0.0054	-0.0043	-0.0043	-0.0041	-0.0038
1.5	-2.5	-0.0365	-0.0182	-0.0091	-0.0027	-0.0028	-0.0028	-0.0018	-0.0014
1.5	-1.5	-0.0330	-0.0158	-0.0078	-0.0021	-0.0020	-0.0020	-0.0011	-0.0012
1.5	0	0.0116	0.0124	0.0066	-0.0025	-0.0013	-0.0014	-0.0008	-0.0006
1.5	1.5	-0.0799	-0.0382	-0.0156	-0.0043	-0.0022	-0.0023	-0.0018	-0.0015
1.5	2.8	-0.0711	-0.0458	-0.0284	-0.0047	-0.0027	-0.0023	-0.0019	-0.0021
1.5	4	-0.0041	-0.0008	-0.0004	-0.0005	-0.0005	-0.0006	-0.0004	-0.0004
1.5	5.5	-0.0419	-0.0271	-0.0110	-0.0056	-0.0013	-0.0014	-0.0007	-0.0006
1.5	6.5	-0.0248	-0.0243	-0.0101	-0.0031	-0.0013	-0.0014	-0.0008	-0.0006
1.5	8	-0.0170	-0.0096	-0.0074	-0.0020	-0.0012	-0.0009	-0.0003	-0.0002
1.5	9.5	-0.0160	-0.0042	-0.0040	-0.0014	-0.0006	-0.0010	-0.0006	-0.0006
1.5	10.5	-0.0151	-0.0028	-0.0023	-0.0010	-0.0007	-0.0007	-0.0003	-0.0001
1.5	12	-0.0118	-0.0022	-0.0009	-0.0006	-0.0006	-0.0006	-0.0003	-0.0002
1.5	13.5	-0.0073	-0.0004	-0.0004	-0.0001	-0.0006	-0.0004	-0.0003	-0.0001
3	-9	-0.0254	-0.0125	-0.0090	-0.0100	-0.0078	-0.0037	-0.0018	-0.0015
3	-7	-0.0256	-0.0115	-0.0084	-0.0073	-0.0030	-0.0023	-0.0016	-0.0016

Force and Moment Summary

h/D <sub>0</sub> =	1.17	1.75	2.35	3.53	5.83	8.83	17.66	26.68
Balance dL/T =	-1.453	-0.876	-0.593	-0.341	-0.249	-0.194	-0.123	-0.111
Pressure dL/T =	-1.741	-0.858	-0.551	-0.316	-0.231	-0.162	-0.111	-0.098
Balance dM/TD <sub>0</sub> =	0.722	0.408	0.203	-0.025	-0.150	-0.206	-0.283	-0.292
Pressure dM/TD <sub>0</sub> =	1.314	0.555	0.241	-0.083	-0.053	-0.023	-0.005	-0.026

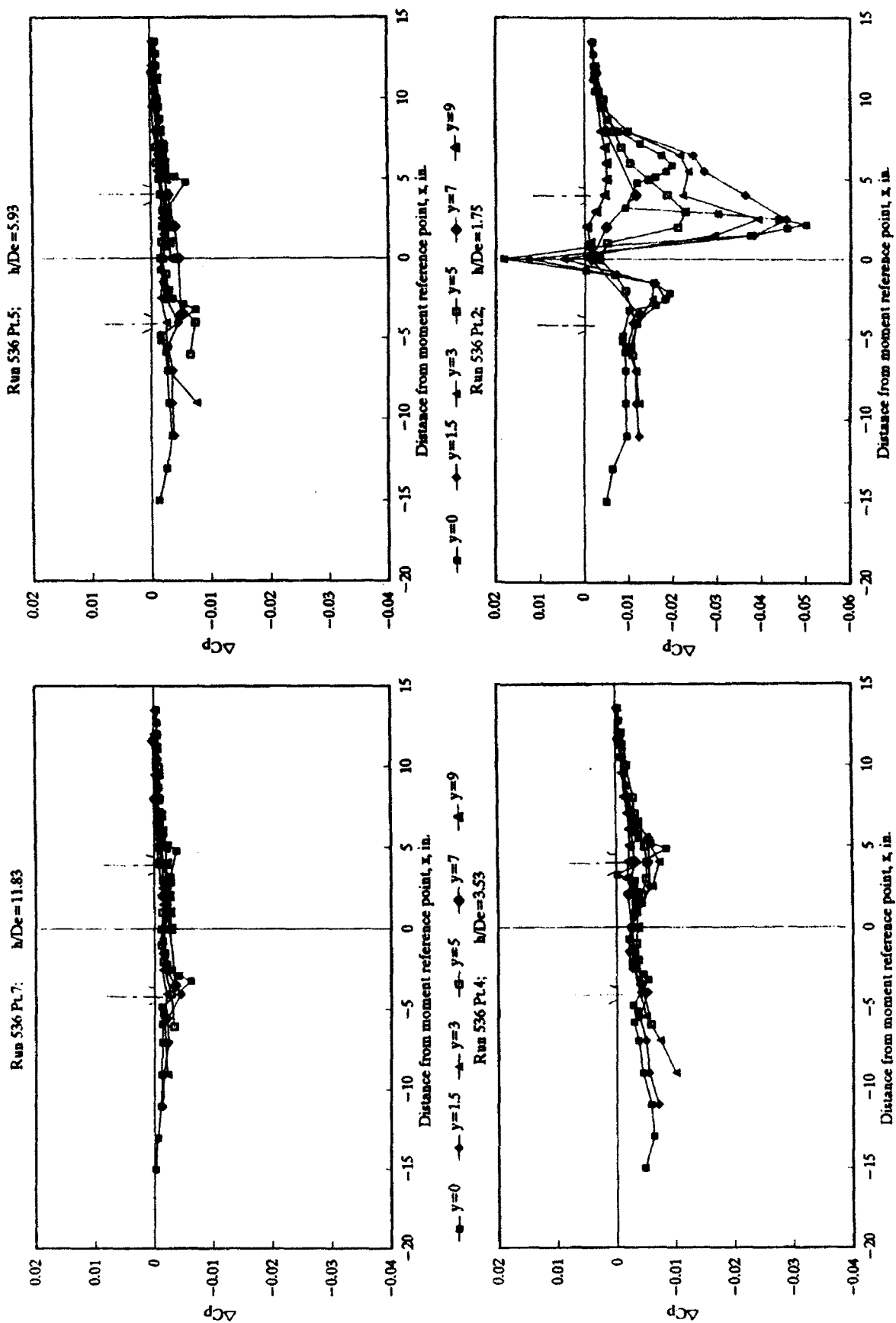


Fig.B-4 Chordwise distributions of jet induced pressure  
at selected heights - Configuration I - Both Jets  
NPR-2 Run 536  $Ve = .06$

TABLE B-5 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=2  
Run 537 Ve=.08

Point h/D <sub>a</sub> =	1 x	2 ΔCp	3 ΔCp	4 ΔCp	5 ΔCp	6 ΔCp	7 ΔCp	8 ΔCp	Point h/D <sub>a</sub> =	1 x	2 ΔCp	3 ΔCp	4 ΔCp	5 ΔCp	6 ΔCp	7 ΔCp	8 ΔCp
0	-15	-0.0000	-0.0001	-0.0001	-0.0001	-0.0017	-0.0010	0.0003	0.0032	3	-5.5	-0.0024	-0.0026	-0.0029	-0.0048	-0.0049	-0.0106
0	-13	-0.0004	-0.0005	-0.0006	-0.0006	-0.0015	-0.0011	-0.0015	-0.0002	3	-4	-0.0032	-0.0032	-0.0037	-0.0048	-0.0040	-0.0106
0	-11	-0.0009	-0.0009	-0.0012	-0.0012	-0.0029	-0.0013	-0.0146	-0.0186	3	-2.5	-0.0022	-0.0022	-0.0026	-0.0028	-0.0027	-0.0155
0	-9	-0.0012	-0.0013	-0.0017	-0.0017	-0.0031	-0.0043	-0.0130	-0.0230	3	-1.5	-0.0019	-0.0023	-0.0025	-0.0028	-0.0029	-0.0142
0	-7	-0.0004	-0.0005	-0.0006	-0.0006	-0.0008	-0.0008	-0.0014	-0.0020	3	0	-0.0015	-0.0018	-0.0021	-0.0025	-0.0027	-0.0085
0	-5.85	-0.0014	-0.0016	-0.0020	-0.0020	-0.0043	-0.0073	-0.0108	-0.0201	3	1.5	-0.0018	-0.0021	-0.0024	-0.0028	-0.0042	-0.0126
0	-5.5	-0.0017	-0.0018	-0.0020	-0.0020	-0.0029	-0.0039	-0.0072	-0.0203	3	2.5	-0.0016	-0.0022	-0.0024	-0.0029	-0.0049	-0.0216
0	-5.15	-0.0009	-0.0010	-0.0015	-0.0015	-0.0020	-0.0063	-0.0102	-0.0186	3	4	-0.0016	-0.0023	-0.0025	-0.0027	-0.0048	-0.0379
0	-4.8	-0.0004	-0.0004	-0.0009	-0.0009	-0.0018	-0.0057	-0.0104	-0.0194	3	8.5	-0.0016	-0.0014	-0.0016	-0.0048	-0.0065	-0.0207
0	-3.2	-0.0037	-0.0039	-0.0044	-0.0044	-0.0083	-0.0089	-0.0040	-0.0105	3	6.5	-0.0011	-0.0014	-0.0014	-0.0019	-0.0039	-0.0192
0	-2.85	-0.0048	-0.0055	-0.0063	-0.0063	-0.0085	-0.0084	-0.0043	-0.0221	3	8	-0.0005	-0.0008	-0.0008	-0.0011	-0.0021	-0.0060
0	-2.5	-0.0037	-0.0038	-0.0038	-0.0038	-0.0037	-0.0031	-0.0062	-0.0174	3	9.5	-0.0001	-0.0004	-0.0003	-0.0005	-0.0009	-0.0121
0	-2.15	-0.0028	-0.0028	-0.0028	-0.0028	-0.0022	-0.0021	-0.0061	-0.0186	3	10.5	-0.0004	-0.0007	-0.0008	-0.0008	-0.0011	-0.0027
0	-1.5	-0.0028	-0.0027	-0.0030	-0.0030	-0.0024	-0.0024	-0.0067	-0.0169	3	12	-0.0001	-0.0002	-0.0003	-0.0002	-0.0006	-0.0023
0	-0.75	-0.0023	-0.0022	-0.0024	-0.0024	-0.0020	-0.0022	-0.0038	-0.0144	3	13.5	-0.0000	-0.0004	-0.0005	-0.0003	-0.0002	-0.0008
0	0	-0.0023	-0.0026	-0.0026	-0.0026	-0.0026	-0.0001	-0.0156	-0.0236	5	-6	-0.0034	-0.0037	-0.0048	-0.0085	-0.0114	-0.0235
0	0.78	-0.0023	-0.0029	-0.0029	-0.0029	-0.0026	-0.0036	-0.0018	-0.0029	5	-4	-0.0022	-0.0026	-0.0032	-0.0048	-0.0060	-0.0136
0	1.95	-0.0026	-0.0034	-0.0031	-0.0031	-0.0041	-0.0147	-0.0411	-0.0791	5	-2	-0.0018	-0.0020	-0.0026	-0.0037	-0.0043	-0.0060
0	1.96	-0.0026	-0.0028	-0.0031	-0.0029	-0.0042	-0.0207	-0.0607	-0.0968	5	-1	-0.0018	-0.0019	-0.0025	-0.0034	-0.0047	-0.0097
0	2.15	-0.0032	-0.0034	-0.0034	-0.0043	-0.0239	-0.0543	-0.0912	-0.1282	5	0	-0.0014	-0.0017	-0.0022	-0.0028	-0.0019	-0.0020
0	2.5	-0.0030	-0.0031	-0.0029	-0.0026	-0.0037	-0.0223	-0.0479	-0.0782	5	1	-0.0014	-0.0016	-0.0022	-0.0023	-0.0028	-0.0028

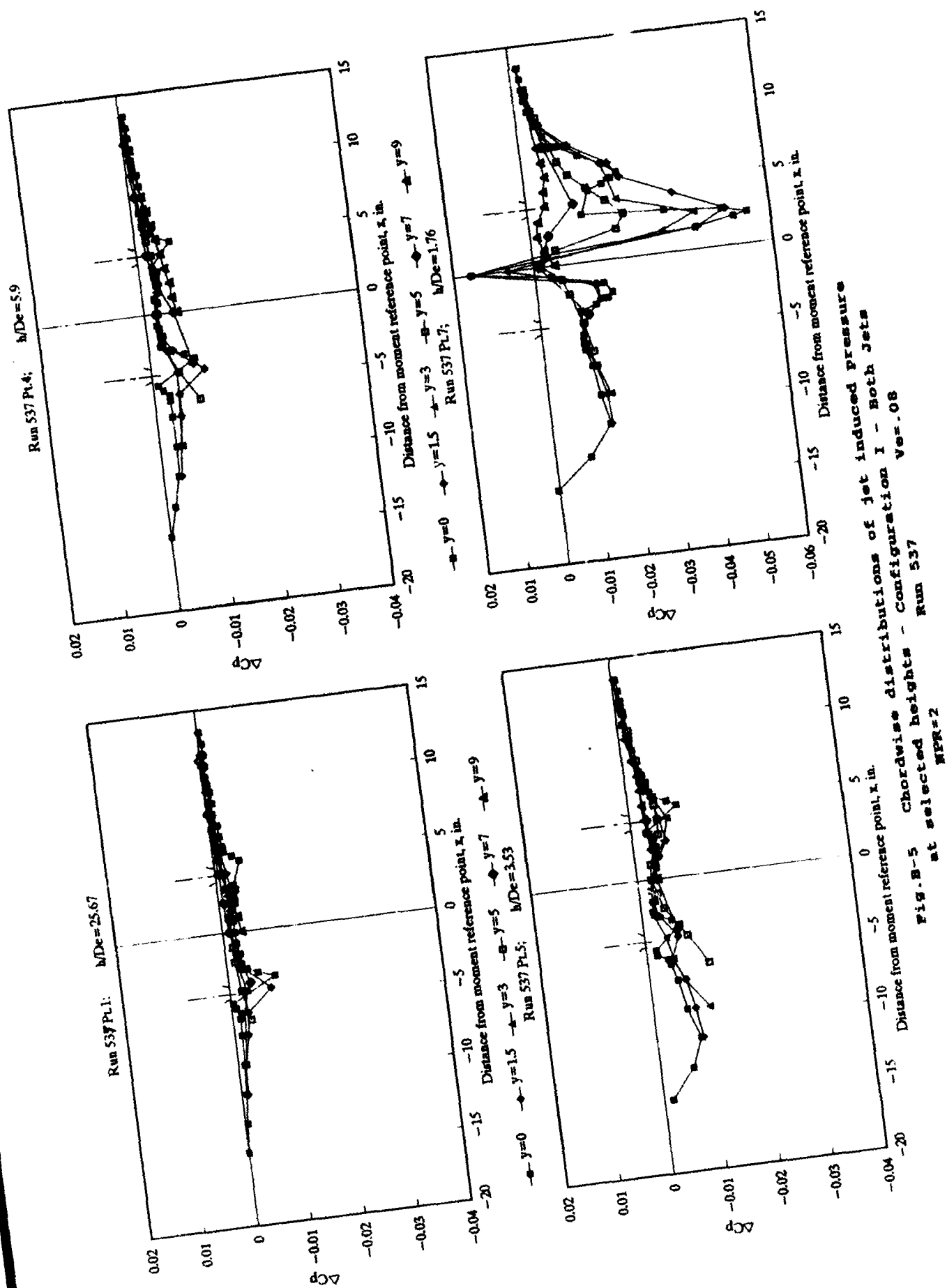


TABLE B-6 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=2  
Run 538  $Ve=.1$

Pc it hDe =	x	1		2	3		4	5	6	7		8	9	y	Point hDe =	1		2	3		4	5	6	7	8	9								
		ΔCp	ΔCp		ΔCp	ΔCp				ΔCp	ΔCp					ΔCp	ΔCp		ΔCp	ΔCp							ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-15	0.050	0.004	0.003	0.004	0.004	0.004	0.004	0.001	0.001	0.001	0.001	0.001	3	-5.5	-0.0204	-0.0089	-0.0085	-0.0084	-0.0047	-0.0035	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030	5	5.94	8.87	11.78	17.6	25.7	26.7	
0	-13	0.042	-0.0025	-0.004	-0.0028	-0.004	-0.004	-0.004	-0.003	-0.003	-0.003	-0.004	-0.003	3	-4	-0.0187	-0.0082	-0.0080	-0.0054	-0.0039	-0.0036	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034	5	5.94	8.87	11.78	17.6	25.7	26.7	
0	-11	-0.0132	-0.0169	-0.0145	-0.0075	-0.0015	-0.0008	-0.0015	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	3	-2.5	-0.0266	-0.0081	-0.0037	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	5	5.94	8.87	11.78	17.6	25.7	26.7	
0	-9	-0.0278	-0.0169	-0.0130	-0.0079	-0.0024	-0.0014	-0.0024	-0.0014	-0.0012	-0.0012	-0.0012	-0.0012	3	-1.5	-0.0426	-0.0106	-0.0036	-0.0031	-0.0038	-0.0030	-0.0027	-0.0017	-0.0016	-0.0016	-0.0016	-0.0016	5	5.94	8.87	11.78	17.6	25.7	26.7
0	-7	-0.0025	-0.0015	-0.0008	-0.0008	-0.0008	-0.0007	-0.0008	-0.0007	-0.0004	-0.0004	-0.0004	-0.0003	3	0	0.0082	-0.0031	-0.0035	-0.0030	-0.0030	-0.0027	-0.0022	-0.0017	-0.0016	-0.0016	-0.0016	-0.0016	5	5.94	8.87	11.78	17.6	25.7	26.7
0	-5.85	-0.0213	-0.0114	-0.0078	-0.0038	-0.0028	-0.0019	-0.0028	-0.0019	-0.0018	-0.0018	-0.0018	-0.0017	3	1.5	-0.0875	-0.0270	-0.0105	-0.0047	-0.0036	-0.0027	-0.0022	-0.0017	-0.0016	-0.0016	-0.0016	-0.0016	5	5.94	8.87	11.78	17.6	25.7	26.7
0	-5.8	-0.0210	-0.0110	-0.0075	-0.0038	-0.0027	-0.0018	-0.0027	-0.0018	-0.0017	-0.0017	-0.0017	-0.0017	3	2.5	-0.0632	-0.0365	-0.0178	-0.0067	-0.0036	-0.0031	-0.0022	-0.0017	-0.0016	-0.0016	-0.0016	-0.0016	5	5.94	8.87	11.78	17.6	25.7	26.7
0	-5.15	-0.0201	-0.0084	-0.0044	-0.0016	-0.0011	-0.0008	-0.0011	-0.0008	-0.0006	-0.0006	-0.0006	-0.0006	3	4	-0.0393	-0.0235	-0.0166	-0.0075	-0.0037	-0.0033	-0.0025	-0.0017	-0.0016	-0.0016	-0.0016	-0.0016	5	5.94	8.87	11.78	17.6	25.7	26.7
0	-4.8	-0.0206	-0.0084	-0.0044	-0.0016	-0.0011	-0.0008	-0.0011	-0.0008	-0.0009	-0.0009	-0.0009	-0.0009	3	5.5	-0.0296	-0.0170	-0.0099	-0.0062	-0.0026	-0.0019	-0.0013	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011	5	5.94	8.87	11.78	17.6	25.7	26.7
0	-3.2	-0.0211	-0.0087	-0.0056	-0.0038	-0.0135	-0.0121	-0.0118	-0.0108	-0.0112	-0.0112	-0.0112	-0.0112	3	6.5	-0.0215	-0.0183	-0.0075	-0.0036	-0.0022	-0.0016	-0.0008	-0.0003	-0.0002	-0.0002	-0.0002	-0.0002	5	5.94	8.87	11.78	17.6	25.7	26.7
0	-2.85	-0.0249	-0.0107	-0.0057	-0.0073	-0.0108	-0.0084	-0.0084	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081	3	8.5	-0.0143</																		

Force and Moment Summary		$h/D_o = 1$
Balance	$dL/T =$	-1.4
Pressure	$dL/T =$	-1.4
Balance	$dM/TDe =$	0.8
Pressure	$dM/TDe =$	0.9



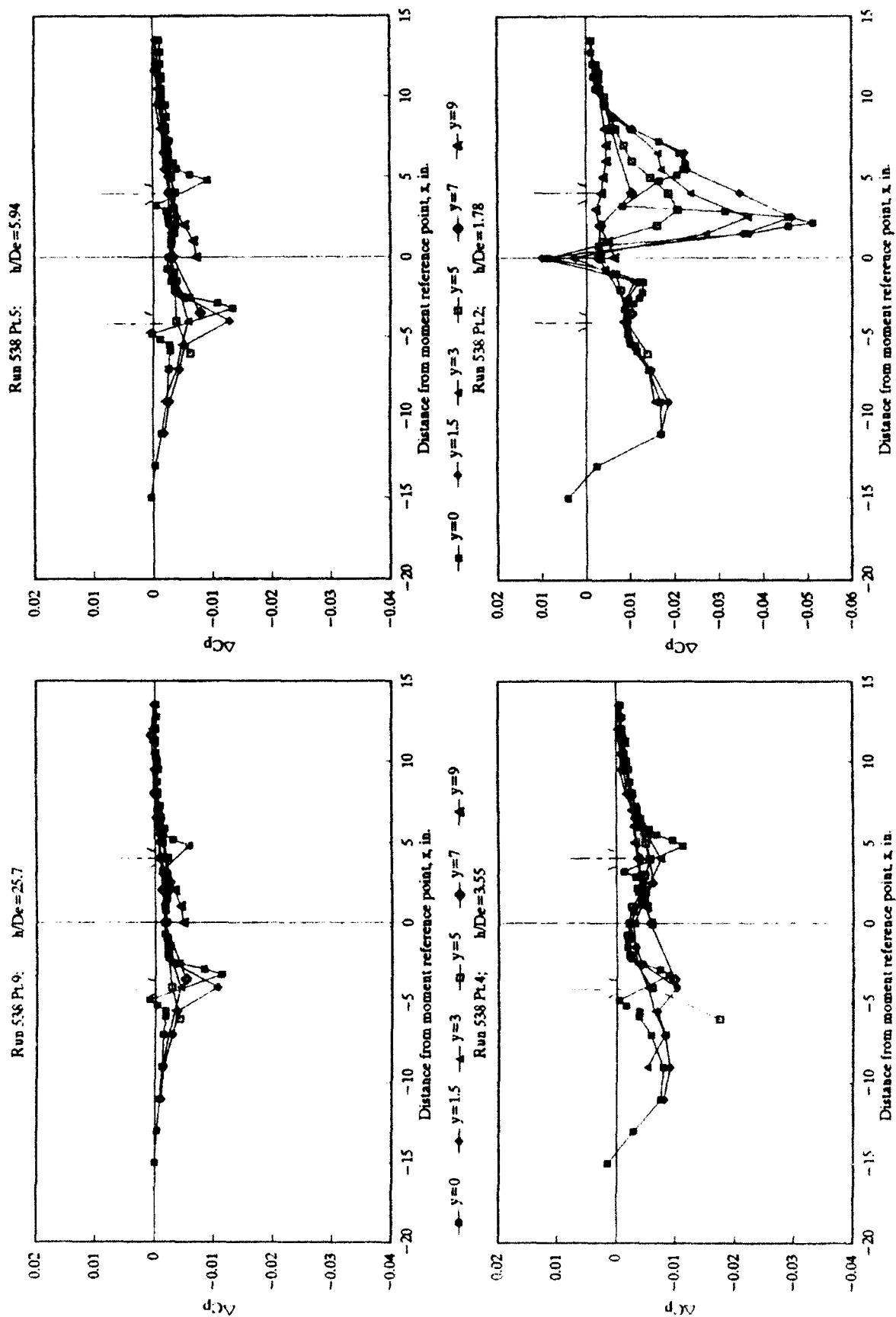


Fig. B-6 Chordwise distributions of jet induced pressure  
at selected heights - Configuration I - Both Jets  
NPK-2 Run 538 Ver. 1



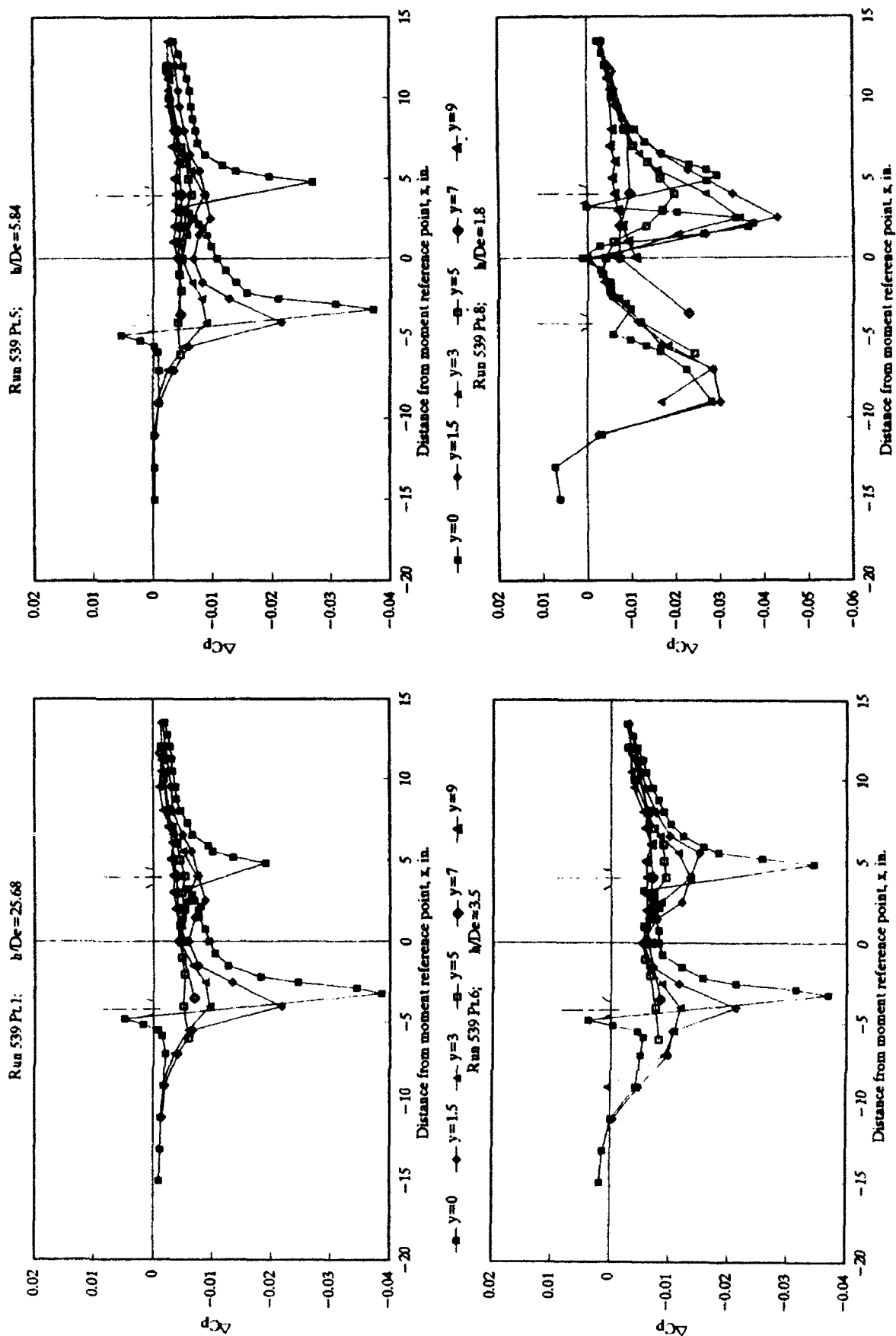


Fig.B-7 Chordwise distributions of jet induced pressure  
at selected heights - Configuration I - Both Jets

NPR-2 Run 539 Ver.15

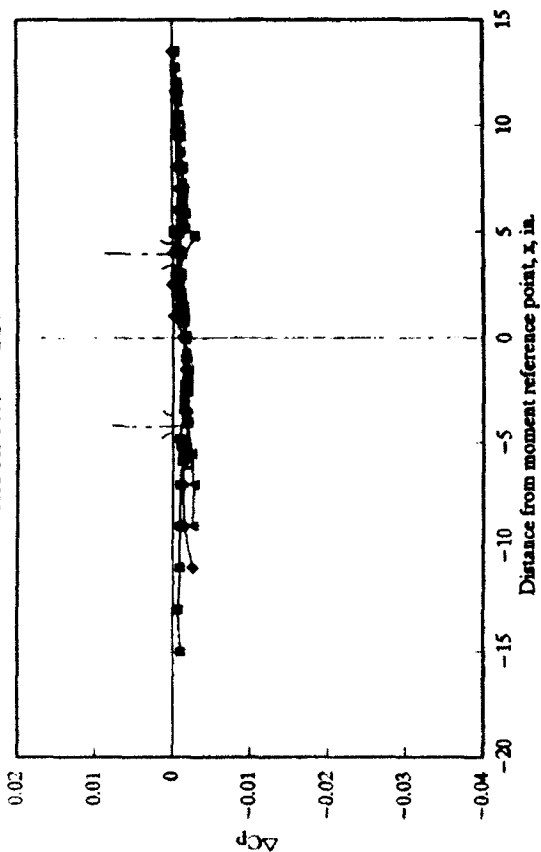
TABLE B-8 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=4  
Run 615 Ve=0

Point N/D =	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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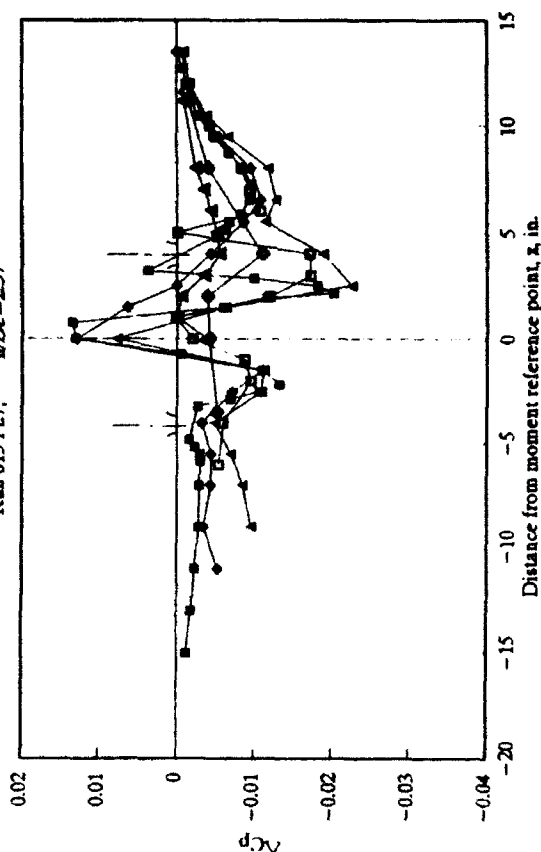
Force and Moment Summary

Balance	dL/T =	-0.015	-0.035	-0.060	-0.121	-0.288	-0.550	-0.883
Pressure	dL/T =	-0.003	-0.022	-0.048	-0.101	-0.251	-0.486	-0.780
Balance	dM/TDe =	0.028	0.070	0.084	0.048	0.333	0.863	0.875
Pressure	dM/TDe =	0.003	0.031	0.043	0.018	0.245	0.826	0.757

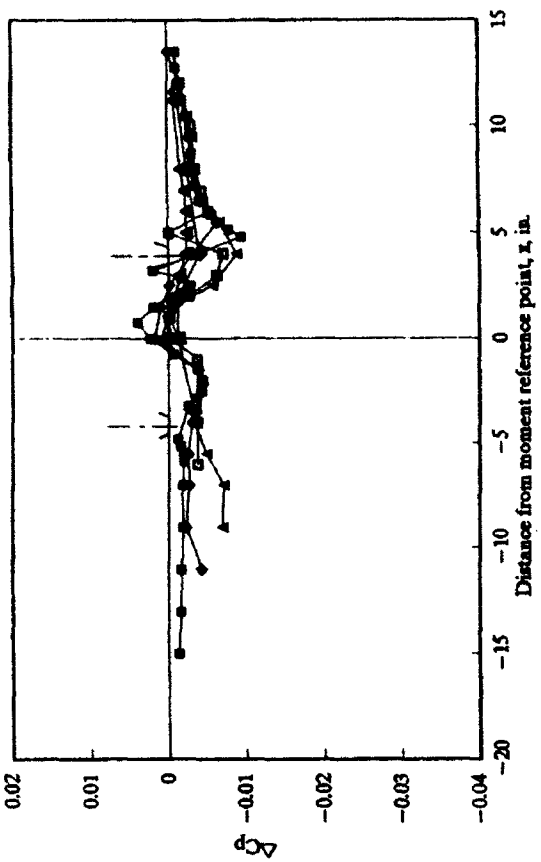
Run 615 Pl.5;  $b/De=5.9$



Run 615 Pl.7;  $b/De=2.37$



Run 615 Pl.6;  $b/De=3.57$



Run 615 Pl.8;  $b/De=1.81$

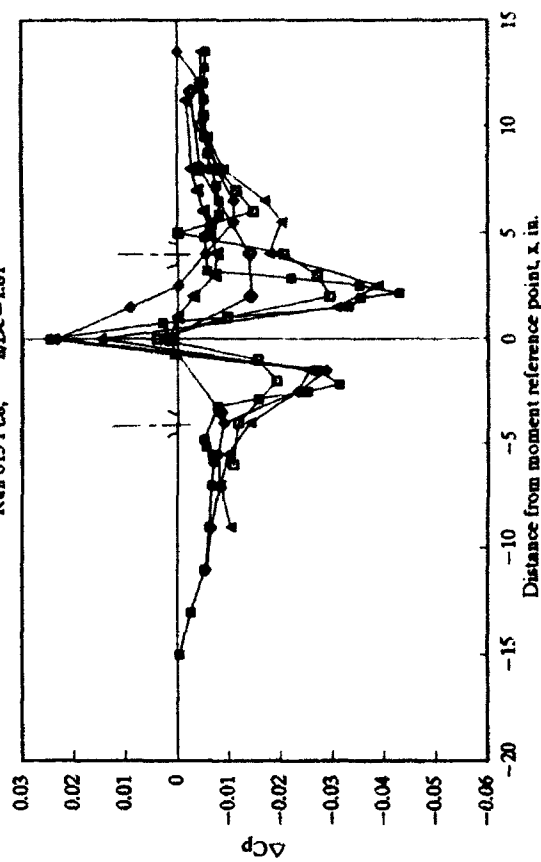


Fig.B-8 Chordwise distributions of jet induced pressure  
at selected heights - Configuration I - Both Jets  
NFR=4 Run 615  $V_e=0$

TABLE B-9 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=4  
Run 616  
Vex=0.4

Point N/Ds =	1 ΔCp	2 2.37 ΔCp	3 33.54 ΔCp	4 5.87 ΔCp	5 8.86 ΔCp	6 11.77 ΔCp	7 23.77 ΔCp
0	-1.5	-0.0015	-0.0036	-0.0027	-0.0013	-0.0008	-0.0003
0	-1.3	-0.0043	-0.0032	-0.0024	-0.0018	-0.0010	-0.0005
0	-1.1	-0.0074	-0.0044	-0.0021	-0.0012	-0.0007	-0.0004
0	-9	-0.0082	-0.0046	-0.0020	-0.0014	-0.0012	-0.0008
0	-7	-0.0007	-0.0004	-0.0003	-0.0002	-0.0002	-0.0002
0	-5.85	-0.0079	-0.0037	-0.0026	-0.0018	-0.0012	-0.0008
0	-5.5	-0.0078	-0.0036	-0.0017	-0.0012	-0.0012	-0.0011
0	-5.15	-0.0070	-0.0033	-0.0024	-0.0010	-0.0011	-0.0009
0	-4.8	-0.0086	-0.0027	-0.0010	-0.0009	-0.0009	-0.0009
0	-3.2	-0.0068	-0.0037	-0.0032	-0.0026	-0.0026	-0.0026
0	-2.85	-0.0154	-0.0066	-0.0035	-0.0027	-0.0028	-0.0022
0	-2.5	-0.0258	-0.0080	-0.0038	-0.0020	-0.0017	-0.0011
0	-2.15	-0.0362	-0.0102	-0.0035	-0.0015	-0.0011	-0.0008
0	-1.5	-0.0226	-0.0091	-0.0033	-0.0013	-0.0008	-0.0011
0	-0.75	-0.0011	-0.0004	-0.0017	-0.0012	-0.0008	-0.0007
0	0	0.0238	0.0121	0.0037	-0.0011	-0.0008	-0.0007
0	0.75	0.0029	0.0112	0.0012	-0.0009	-0.0009	-0.0005
0	1.5	-0.0350	-0.0068	-0.0009	-0.0012	-0.0008	-0.0010
0	1.96	-0.0373	-0.0139	-0.0010	-0.0010	-0.0011	-0.0006
0	2.15	-0.0471	-0.0214	-0.0017	-0.0014	-0.0012	-0.0010
0	2.5	-0.0362	-0.0184	-0.0013	-0.0010	-0.0012	-0.0007
0	2.85	-0.0258	-0.0108	-0.0001	-0.0015	-0.0010	-0.0013
0	3.2	-0.0065	0.0032	0.0037	-0.0018	-0.0015	-0.0008
0	4.8	-0.0076	0.0088	0.0113	-0.0020	-0.0021	-0.0016
0	5.15	-0.0086	-0.0101	-0.0078	-0.0013	-0.0014	-0.0008
0	5.5	-0.0114	-0.0107	-0.0068	-0.0008	-0.0008	-0.0004
0	5.85	-0.0136	-0.0119	-0.0058	-0.0002	-0.0002	-0.0005
0	6.8	-0.0126	-0.0117	-0.0043	-0.0006	-0.0005	-0.0002
0	7.25	-0.0118	-0.0118	-0.0037	-0.0006	-0.0004	-0.0002
0	8	-0.0090	-0.0102	-0.0026	-0.0006	-0.0004	-0.0002
0	8.75	-0.0070	-0.0078	-0.0022	-0.0008	-0.0004	-0.0002
0	9.5	-0.0098	-0.0084	-0.0018	-0.0007	-0.0004	-0.0001
0	10.5	-0.0047	-0.0029	-0.0014	-0.0008	-0.0003	-0.0002
0	11.25	-0.0043	-0.0017	-0.0011	-0.0006	-0.0003	-0.0001
0	12	-0.0040	-0.0011	-0.0009	-0.0005	-0.0001	-0.0001
0	12.75	-0.0036	-0.0008	-0.0007	-0.0005	-0.0001	-0.0001
0	13.5	-0.0038	-0.0008	-0.0005	-0.0003	-0.0002	-0.0001
0.8	-4	-0.0103	-0.0050	-0.0078	-0.0064	-0.0060	-0.0056
0.8	4	0.0073	0.0020	0.0042	0.0032	0.0046	0.0038
1.5	-11	-0.0083	-0.0083	-0.0065	-0.0038	-0.0017	-0.0013
1.5	-9	-0.0090	-0.0081	-0.0068	-0.0020	-0.0013	-0.0008
1.5	-7	-0.0082	-0.0064	-0.0036	-0.0019	-0.0014	-0.0011
1.5	-5.5	-0.0080	-0.0046	-0.0022	-0.0019	-0.0014	-0.0012
1.5	-4	-0.0084	-0.0037	-0.0040	-0.0028	-0.0030	-0.0021
1.5	-2.5	-0.0182	-0.0081	-0.0032	-0.0014	-0.0015	-0.0008
1.5	-1.5	-0.0226	-0.0085	-0.0033	-0.0014	-0.0007	-0.0004
1.5	0	0.0207	0.0105	-0.0003	-0.0014	-0.0009	-0.0007
1.5	1.5	0.0084	0.0084	0.0084	0.0063	0.0060	0.0062
1.5	2.6	-0.0003	-0.0003	-0.0004	-0.0003	-0.0002	-0.0003
1.5	4	-0.0006	-0.0004	-0.0004	-0.0003	-0.0003	-0.0002
1.5	5.5	-0.0176	-0.0118	-0.0063	-0.0007	-0.0008	-0.0004
1.5	6.5	-0.0174	-0.0113	-0.0047	-0.0007	-0.0008	-0.0003
1.5	8	-0.0101	-0.0106	-0.0031	-0.0007	-0.0004	-0.0002
1.5	9.5	-0.0068	-0.0067	-0.0019	-0.0008	-0.0003	-0.0002
1.5	10.5	-0.0046	-0.0029	-0.0014	-0.0005	-0.0003	-0.0001
1.5	12	-0.0037	-0.0010	-0.0009	-0.0005	-0.0003	-0.0002
1.5	13.5	-0.0004	-0.0003	-0.0003	-0.0002	-0.0003	-0.0001
3	-9	-0.0118	-0.0068	-0.0060	-0.0037	-0.0028	-0.0012
3	-7	-0.0089	-0.0074	-0.0056	-0.0035	-0.0024	-0.0016

Forces and Moment Summary

Point N/Ds =	1.8
Balance dL/T =	-0.908
Pressure dL/T =	-0.783
Balance dm/DTDs =	0.788
Pressure dm/DTDs =	0.779
	2.37
	33.54
	5.87
	8.86
	11.77
	23.77

Force and Moment Summary

NDe =	1.8	2.37	33.54	5.87	8.86	11.77	23.77	5.87	8.86	11.77	23.77
Balance	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
Pressure	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
Balance	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006
Pressure	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006	-0.006

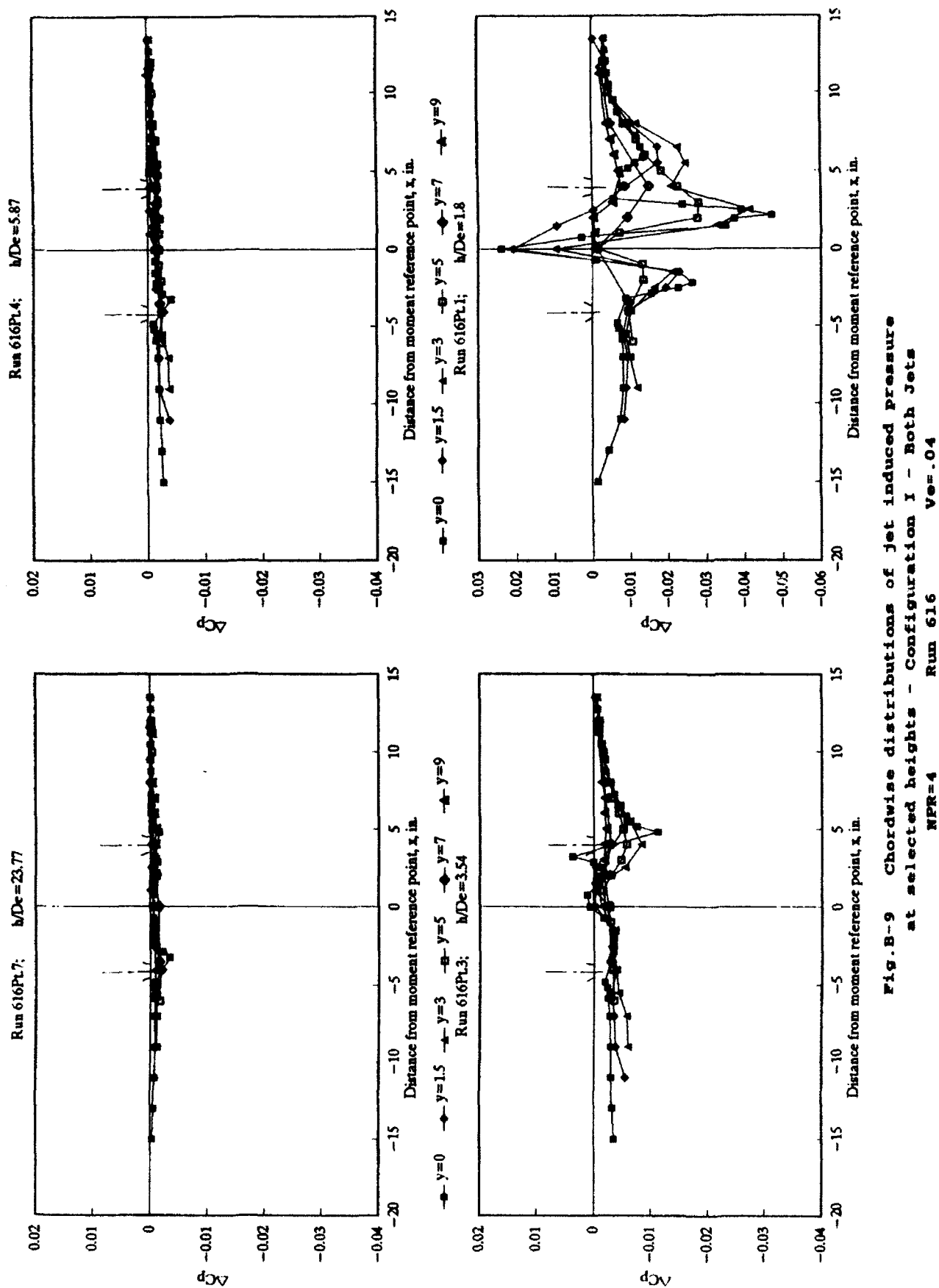


Fig. B-9 Chordwise distributions of jet induced pressure at selected heights - Configuration I - Both Jets

NPR=4 Run 616  $Ve=.04$

TABLE B-10 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=4

Run 617 Ve=.08

Point N/D=	1	2	3	4	5	6	Point N/D=	1	2	3	4	5	6
x	23.75	11.81	8.86	6.91	5.96	2.39	x	23.75	11.81	8.86	6.91	5.96	2.39
y	0	0	0	0	0	0	y	0	0	0	0	0	0
0	-15	-0.0003	-0.0004	-0.0005	-0.0006	-0.0008	3	-5.5	-0.0018	-0.0028	-0.0033	-0.0047	-0.0066
0	-13	-0.0006	-0.0008	-0.0009	-0.0012	-0.0016	3	-4	-0.0028	-0.0037	-0.0040	-0.0039	-0.0038
0	-11	-0.0008	-0.0010	-0.0014	-0.0035	-0.0070	3	-2.5	-0.0018	-0.0030	-0.0039	-0.0031	-0.0032
0	-9	-0.0010	-0.0013	-0.0019	-0.0032	-0.0059	3	-1.5	-0.0015	-0.0020	-0.0028	-0.0025	-0.0022
0	-7	-0.0004	-0.0008	-0.0007	-0.0008	-0.0009	3	0	-0.0012	-0.0015	-0.0019	-0.0017	-0.0019
0	-5.85	-0.0011	-0.0016	-0.0018	-0.0022	-0.0027	3	1.5	-0.0013	-0.0017	-0.0021	-0.0020	-0.0023
0	-5.5	-0.0009	-0.0013	-0.0020	-0.0019	-0.0026	3	2.5	-0.0015	-0.0019	-0.0023	-0.0021	-0.0023
0	-5.15	-0.0002	-0.0008	-0.0008	-0.0010	-0.0010	3	4	-0.0018	-0.0021	-0.0020	-0.0015	-0.0014
0	-4.8	-0.0004	-0.0008	-0.0001	-0.0001	-0.0004	3	5.5	-0.0006	-0.0012	-0.0013	-0.0002	-0.0002
0	-3.2	-0.0072	-0.0081	-0.0082	-0.0084	-0.0085	3	6.5	-0.0005	-0.0009	-0.0012	-0.0015	-0.0016
0	-2.95	-0.0066	-0.0073	-0.0077	-0.0084	-0.0087	3	8	-0.0006	-0.0007	-0.0010	-0.0008	-0.0008
0	-2.8	-0.0040	-0.0048	-0.0050	-0.0046	-0.0046	3	9.5	-0.0003	-0.0007	-0.0008	-0.0006	-0.0006
0	-2.15	-0.0026	-0.0030	-0.0035	-0.0029	-0.0023	3	10.5	-0.0002	-0.0006	-0.0006	-0.0006	-0.0012
0	-1.5	-0.0014	-0.0022	-0.0023	-0.0020	-0.0015	3	12	-0.0003	-0.0007	-0.0008	-0.0006	-0.0010
0	-0.75	-0.0012	-0.0018	-0.0020	-0.0014	-0.0010	3	13.5	-0.0002	-0.0005	-0.0006	-0.0004	-0.0008
0	0	-0.0012	-0.0017	-0.0020	-0.0013	-0.0008	5	-6	-0.0027	-0.0034	-0.0044	-0.0078	-0.0087
0	0.75	-0.0012	-0.0017	-0.0021	-0.0016	-0.0011	5	-4	-0.0018	-0.0028	-0.0037	-0.0071	-0.0083
0	1.5	-0.0012	-0.0017	-0.0021	-0.0017	-0.0015	5	-2	-0.0018	-0.0030	-0.0034	-0.0030	-0.0040
0	1.85	-0.0013	-0.0018	-0.0022	-0.0016	-0.0017	5	-1	-0.0014	-0.0019	-0.0024	-0.0024	-0.0034
0	2.15	-0.0013	-0.0018	-0.0021	-0.0015	-0.0018	5	0	-0.0013	-0.0018	-0.0023	-0.0020	-0.0033
0	2.5	-0.0013	-0.0014	-0.0017	-0.0022	-0.0024	5	1	-0.0012	-0.0015	-0.0020	-0.0017	-0.0030
0	2.85	-0.0013	-0.0014	-0.0017	-0.0021	-0.0028	5	2	-0.0014	-0.0019	-0.0024	-0.0021	-0.0034
0	3.2	-0.0009	-0.0009	-0.0012	-0.0010	-0.0008	5	3	-0.0011	-0.0018	-0.0021	-0.0020	-0.0045
0	4.5	-0.0039	-0.0051	-0.0053	-0.0049	-0.0126	5	4	-0.0013	-0.0018	-0.0021	-0.0022	-0.0084
0	5.15	-0.0028	-0.0036	-0.0042	-0.0038	-0.0125	5	5	-0.0008	-0.0009	-0.0009	-0.0009	-0.0011
0	5.5	-0.0017	-0.0023	-0.0028	-0.0026	-0.0085	5	6	-0.0006	-0.0012	-0.0016	-0.0017	-0.0043
0	5.85	-0.0013	-0.0020	-0.0018	-0.0021	-0.0140	5	7	-0.0007	-0.0009	-0.0010	-0.0018	-0.0046
0	6.5	-0.0009	-0.0011	-0.0015	-0.0014	-0.0044	5	8	-0.0006	-0.0006	-0.0010	-0.0027	-0.0043
0	7.25	-0.0007	-0.0008	-0.0011	-0.0013	-0.0037	5	10	-0.0003	-0.0007	-0.0008	-0.0007	-0.0033
0	8	-0.0005	-0.0008	-0.0012	-0.0012	-0.0027	5	12	-0.0002	-0.0005	-0.0006	-0.0004	-0.0017
0	8.75	-0.0005	-0.0010	-0.0009	-0.0010	-0.0023	5	-3.5	-0.0034	-0.0044	-0.0056	-0.0085	-0.0089
0	9.5	-0.0004	-0.0008	-0.0008	-0.0008	-0.0019	7	0	-0.0015	-0.0021	-0.0030	-0.0062	-0.0043
0	10.5	-0.0004	-0.0008	-0.0008	-0.0007	-0.0017	7	2	-0.0011	-0.0018	-0.0021	-0.0047	-0.0031
0	11.25	-0.0003	-0.0007	-0.0009	-0.0006	-0.0014	7	4	-0.0008	-0.0012	-0.0016	-0.0032	-0.0035
0	12	-0.0002	-0.0005	-0.0007	-0.0004	-0.0012	7	6	-0.0002	-0.0007	-0.0008	-0.0015	-0.0025
0	12.75	-0.0003	-0.0006	-0.0006	-0.0004	-0.0010	7	11.5	-0.0001	-0.0004	-0.0006	-0.0008	-0.0011
0	13.5	-0.0000	-0.0004	-0.0004	-0.0003	-0.0006	8.5	0	-0.0031	-0.0041	-0.0050	-0.0046	-0.0050
0.8	-4	-0.0206	-0.0259	-0.0259	-0.0249	-0.0099	9	1	-0.0004	-0.0006	-0.0007	-0.0008	-0.0010
0.8	4	-0.0088	-0.0110	-0.0114	-0.0142	-0.0439	9	2	-0.0025	-0.0038	-0.0048	-0.0044	-0.0036
1.5	-11	-0.0008	-0.0010	-0.0017	-0.0036	-0.0073	9	3	-0.0018	-0.0027	-0.0038	-0.0041	-0.0029
1.5	-9	-0.0011	-0.0013	-0.0019	-0.0037	-0.0069	9	4	-0.0012	-0.0021	-0.0031	-0.0036	-0.0036
1.5	-7	-0.0016	-0.0020	-0.0026	-0.0036	-0.0051	9	5	-0.0008	-0.0017	-0.0027	-0.0037	-0.0044
1.5	-5	-0.0025	-0.0029	-0.0036	-0.0043	-0.0049	9	6	-0.0007	-0.0013	-0.0022	-0.0034	-0.0040
1.5	-4	-0.0056	-0.0078	-0.0079	-0.0078	-0.0069	9	7	-0.0005	-0.0010	-0.0017	-0.0029	-0.0046
1.5	-2.5	-0.0026	-0.0036	-0.0043	-0.0034	-0.0030	9	8	-0.0004	-0.0009	-0.0014	-0.0024	-0.0040
1.5	-1.5	-0.0019	-0.0026	-0.0028	-0.0023	-0.0016	9	11.2	-0.0002	-0.0006	-0.0009	-0.0014	-0.0022
1.5	0	-0.0012	-0.0016	-0.0022	-0.0020	-0.0016	10	4	-0.0021	-0.0029	-0.0037	-0.0035	-0.0032
1.5	1.5	-0.0012	-0.0016	-0.0022	-0.0020	-0.0016	11	4	-0.0021	-0.0029	-0.0037	-0.0035	-0.0032
1.5	2.5	-0.0005	-0.0007	-0.0007	-0.0007	-0.0010	11	6	-0.0008	-0.0016	-0.0018	-0.0022	-0.0016
1.5	4	-0.0005	-0.0007	-0.0008	-0.0008	-0.0010	12	8	-0.0010	-0.0017	-0.0023	-0.0021	-0.0016
1.5	5.5	-0.0010	-0.0014	-0.0018	-0.0018	-0.0014	12	10.5	-0.0004	-0.0010	-0.0016	-0.0010	-0.0011
1.5	6.5	-0.0009	-0.0011	-0.0014	-0.0013	-0.0009	13	6	-0.0006	-0.0014	-0.0019	-0.0018	-0.0021
1.5	8	-0.0005	-0.0007	-0.0008	-0.0008	-0.0017							
1.5	10.5	-0.0003	-0.0008	-0.0008	-0.0007	-0.0014							
1.5	12	-0.0003	-0.0008	-0.0008	-0.0006	-0.0008							
1.5	13.5	-0.0003	-0.0006	-0.0004	-0.0007	-0.0014							
3	-9	-0.0015	-0.0021	-0.0021	-0.0017	-0.0009							
3	-7	-0.0015	-0.0018	-0.0024	-0.0033	-0.0070							

Force and Moment Summary

N/D=	23.75	11.81	8.86	6.91	5.96	2.39
Balance dJ/T =	-0.120	-0.159	-0.197	-0.285	-0.348	-0.629
Pressure dJ/T =	-0.05	-0.159	-0.200	-0.282	-0.327	-0.883
Balance dM/TDa =	-0.091	-0.050	-0.083	-0.157	-0.189	-0.358
Pressure dM/TDa =	-0.020	0.063	0.068	-0.022	-0.054	0.437



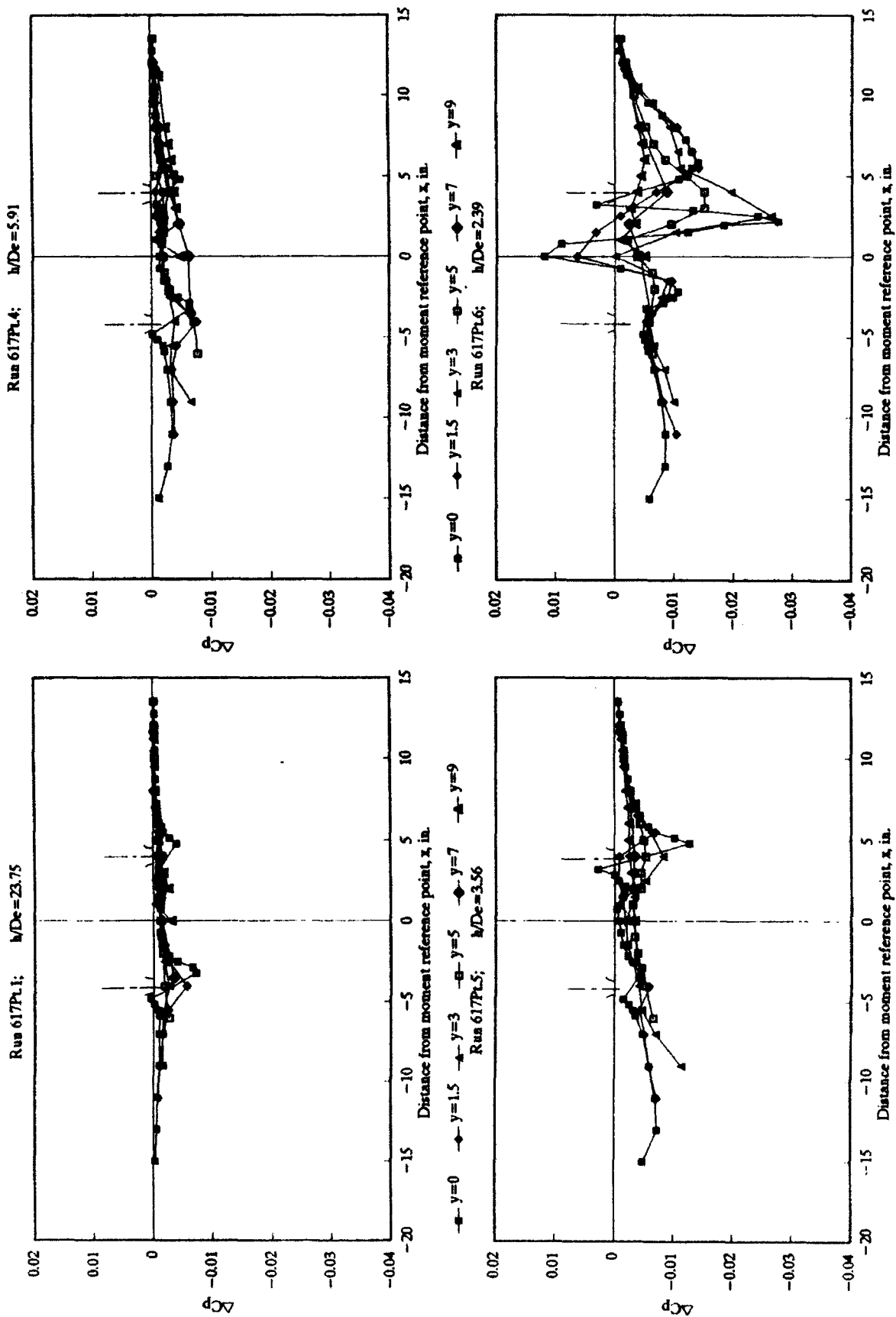


Fig.B-10 Chordwise distributions of jet induced pressure at selected heights - Configuration I - Both Jets

NPR=4 Run 617  $Ve=.08$



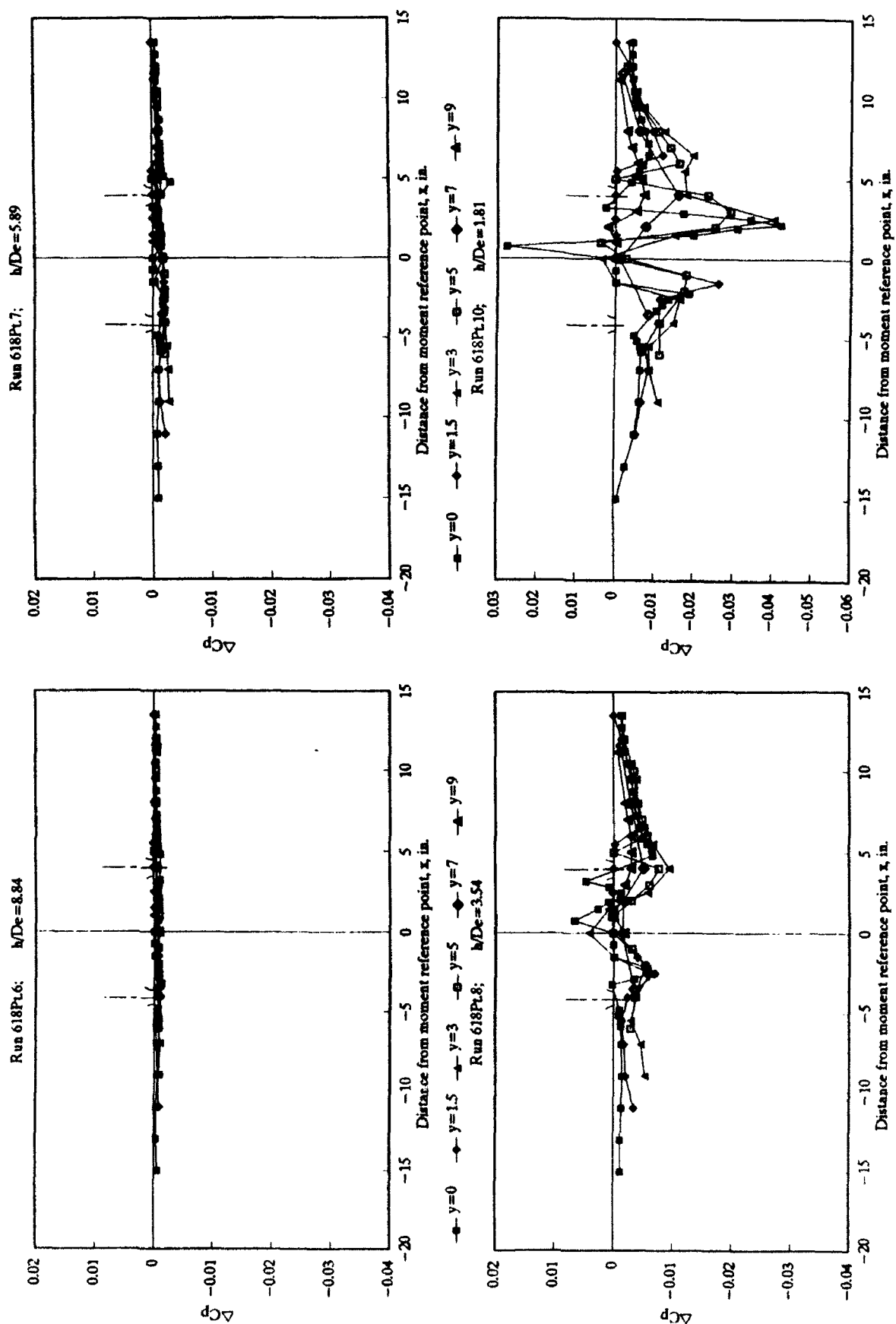


Fig. 8-11 Chordwise distributions of jet induced pressure at selected heights - Configuration I - Both Jets

NPR=6 Run 618  $Ve=0$



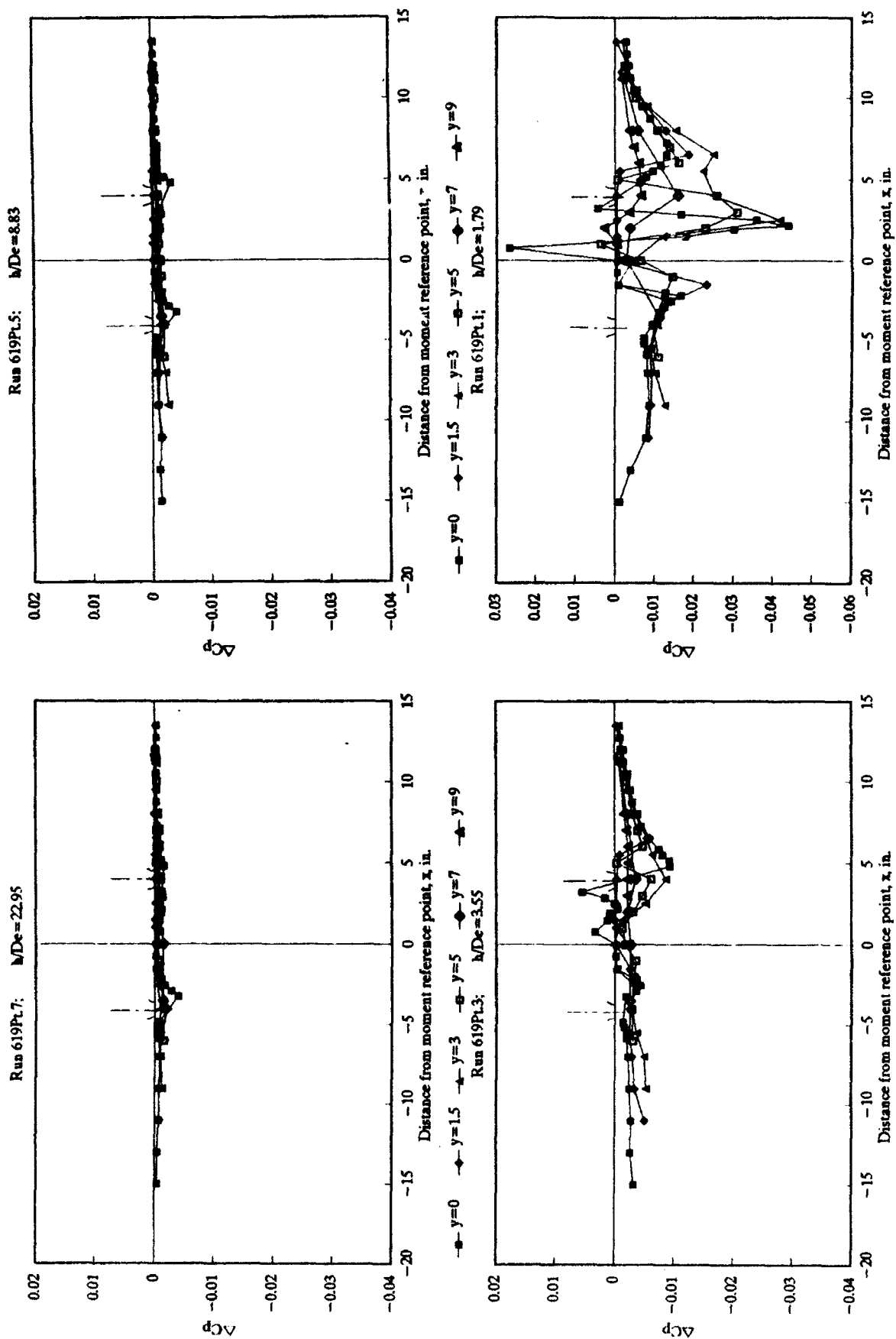


Fig.B-12 Chordwise distributions of jet induced pressure  
at selected heights - Configuration I - Both Jets  
NPR=6 Run 619 Ver.04

TABLE B-13 JET INDUCED PRESSURE INCREMENTS  
Configuration I - Both Jets - NPR=6

Run #20  $\gamma_e = .08$

Point NDe =	1	2	3	4	5	6	7
Y	X	LCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-15	-0.0004	-0.0006	-0.0018	-0.0053	-0.0034	-0.0100
0	-13	-0.0006	-0.0008	-0.0031	-0.0089	-0.0046	-0.0106
0	-11	-0.0008	-0.0014	-0.0035	-0.0043	-0.0111	-0.0126
0	-9	-0.0011	-0.0016	-0.0029	-0.0046	-0.0114	-0.0012
0	-7	-0.0008	-0.0007	-0.0007	-0.0008	-0.0011	-0.0024
0	-5.85	-0.0010	-0.0013	-0.0018	-0.0024	-0.0034	-0.0144
0	-5.5	-0.0008	-0.0009	-0.0014	-0.0024	-0.0034	-0.0144
0	-5.15	-0.0001	-0.0002	-0.0001	-0.0018	-0.0034	-0.0144
0	-4.8	0.0008	0.0009	0.0004	-0.0009	-0.0034	-0.0144
0	-3.2	-0.0007	-0.0101	-0.0078	-0.0046	-0.0111	-0.0144
0	-2.85	-0.0006	-0.0100	-0.0064	-0.0046	-0.0129	-0.0144
0	-2.5	-0.0009	-0.0070	-0.0047	-0.0034	-0.0184	-0.0144
0	-2.15	-0.0048	-0.0048	-0.0048	-0.0048	-0.0184	-0.0144
0	-1.5	-0.0008	-0.0008	-0.0010	-0.0010	-0.0012	-0.0028
0	-0.75	-0.0007	-0.0008	-0.0008	-0.0009	-0.0010	-0.0028
0	0	-0.0009	-0.0009	-0.0010	-0.0010	-0.0011	-0.0028
0	0.75	-0.0009	-0.0009	-0.0017	-0.0008	-0.0013	-0.0028
0	1.5	-0.0019	-0.0019	-0.0017	-0.0017	-0.0013	-0.0028
0	1.85	-0.0021	-0.0021	-0.0018	-0.0018	-0.0022	-0.0028
0	2.15	-0.0021	-0.0021	-0.0015	-0.0015	-0.0022	-0.0028
0	2.5	-0.0018	-0.0017	-0.0014	-0.0014	-0.0022	-0.0028
0	2.85	-0.0020	-0.0016	-0.0018	-0.0018	-0.0022	-0.0028
0	3.2	-0.0018	-0.0015	-0.0009	-0.0009	-0.0022	-0.0028
0	4.8	-0.0001	-0.0070	-0.0087	-0.0138	-0.0098	-0.0028
0	5.15	-0.0044	-0.0045	-0.0048	-0.0146	-0.0147	-0.0028
0	5.5	-0.0030	-0.0041	-0.0048	-0.0123	-0.0140	-0.0028
0	5.85	-0.0024	-0.0032	-0.0039	-0.0097	-0.0183	-0.0028
0	6.8	-0.0018	-0.0020	-0.0030	-0.0060	-0.0176	-0.0028
0	7.25	-0.0018	-0.0016	-0.0024	-0.0040	-0.0164	-0.0028
0	8	-0.0011	-0.0014	-0.0020	-0.0030	-0.0130	-0.0028
0	8.75	-0.0010	-0.0013	-0.0018	-0.0025	-0.0098	-0.0028
0	9.5	-0.0009	-0.0012	-0.0018	-0.0021	-0.0071	-0.0028
0	10.5	-0.0007	-0.0010	-0.0013	-0.0017	-0.0048	-0.0028
0	11.25	-0.0007	-0.0008	-0.0012	-0.0013	-0.0038	-0.0028
0	12	-0.0007	-0.0009	-0.0011	-0.0011	-0.0030	-0.0028
0	12.75	-0.0007	-0.0008	-0.0010	-0.0009	-0.0025	-0.0028
0	13.5	-0.0006	-0.0007	-0.0009	-0.0007	-0.0021	-0.0028
0.5	-4	-0.0234	-0.0238	-0.0184	-0.0108	-0.0108	-0.0028
0.8	4	-0.0104	-0.0108	-0.0118	-0.0228	-0.0122	-0.0028
1.5	-11	-0.0008	-0.0014	-0.0037	-0.0089	-0.0117	-0.0028
1.5	-9	-0.0011	-0.0017	-0.0034	-0.0082	-0.0119	-0.0028
1.5	-7	-0.0018	-0.0023	-0.0032	-0.0042	-0.0108	-0.0028
1.5	-5.5	-0.0029	-0.0034	-0.0032	-0.0037	-0.0098	-0.0028
1.5	-4	-0.0082	-0.0082	-0.0074	-0.0046	-0.0108	-0.0028
1.5	-2.5	-0.0048	-0.0041	-0.0045	-0.0028	-0.0143	-0.0028
1.5	-1.5	-0.0028	-0.0033	-0.0028	-0.0021	-0.0205	-0.0028
1.5	0	-0.0007	-0.0007	-0.0008	-0.0009	-0.0010	-0.0028
1.5	1.5	0.0071	0.0088	0.0017	0.0044	0.0081	-0.0028
1.5	2.5	-0.0008	-0.0010	-0.0010	-0.0009	-0.0010	-0.0028
1.5	4	-0.0008	-0.0009	-0.0009	-0.0009	-0.0011	-0.0028
1.5	5.5	-0.0015	-0.0018	-0.0021	-0.0022	-0.0022	-0.0028
1.5	6.8	-0.0011	-0.0015	-0.0021	-0.0022	-0.0022	-0.0028
1.5	8	-0.0011	-0.0015	-0.0021	-0.0022	-0.0022	-0.0028
1.5	10.5	-0.0008	-0.0009	-0.0011	-0.0011	-0.0012	-0.0028
1.5	12	-0.0008	-0.0009	-0.0011	-0.0011	-0.0012	-0.0028
1.5	13.5	-0.0008	-0.0009	-0.0011	-0.0011	-0.0012	-0.0028
3	-7	-0.0018	-0.0023	-0.0033	-0.0043	-0.0114	-0.0144

Force and Moment Summary

NDe =	11.77	8.86	5.9	3.57	1.77	
Balance	dL/T =	-0.161	-0.186	-0.262	-0.332	-0.827
Pressure	dL/T =	-0.169	-0.204	-0.268	-0.307	-0.827
Balance	dM/TDe =	-0.008	-0.006	-0.101	-0.033	0.813
Pressure	dM/TDe =	0.089	0.104	0.020	0.032	0.802

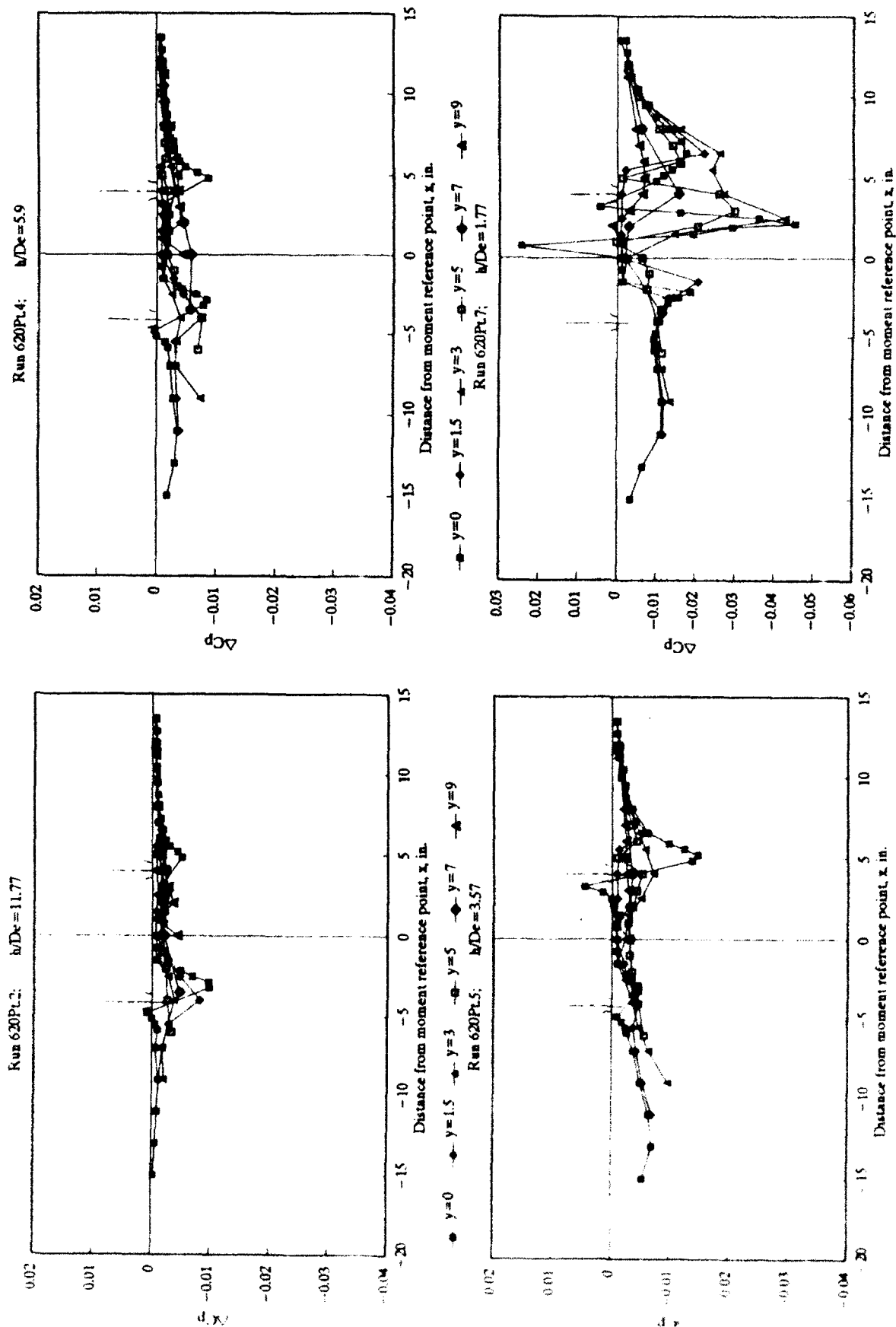


Fig. B-13 Chordwise distributions of jet induced pressure at selected heights - Configuration 1 - Both Jets

NPR=6 Run 620  $Ve=.08$





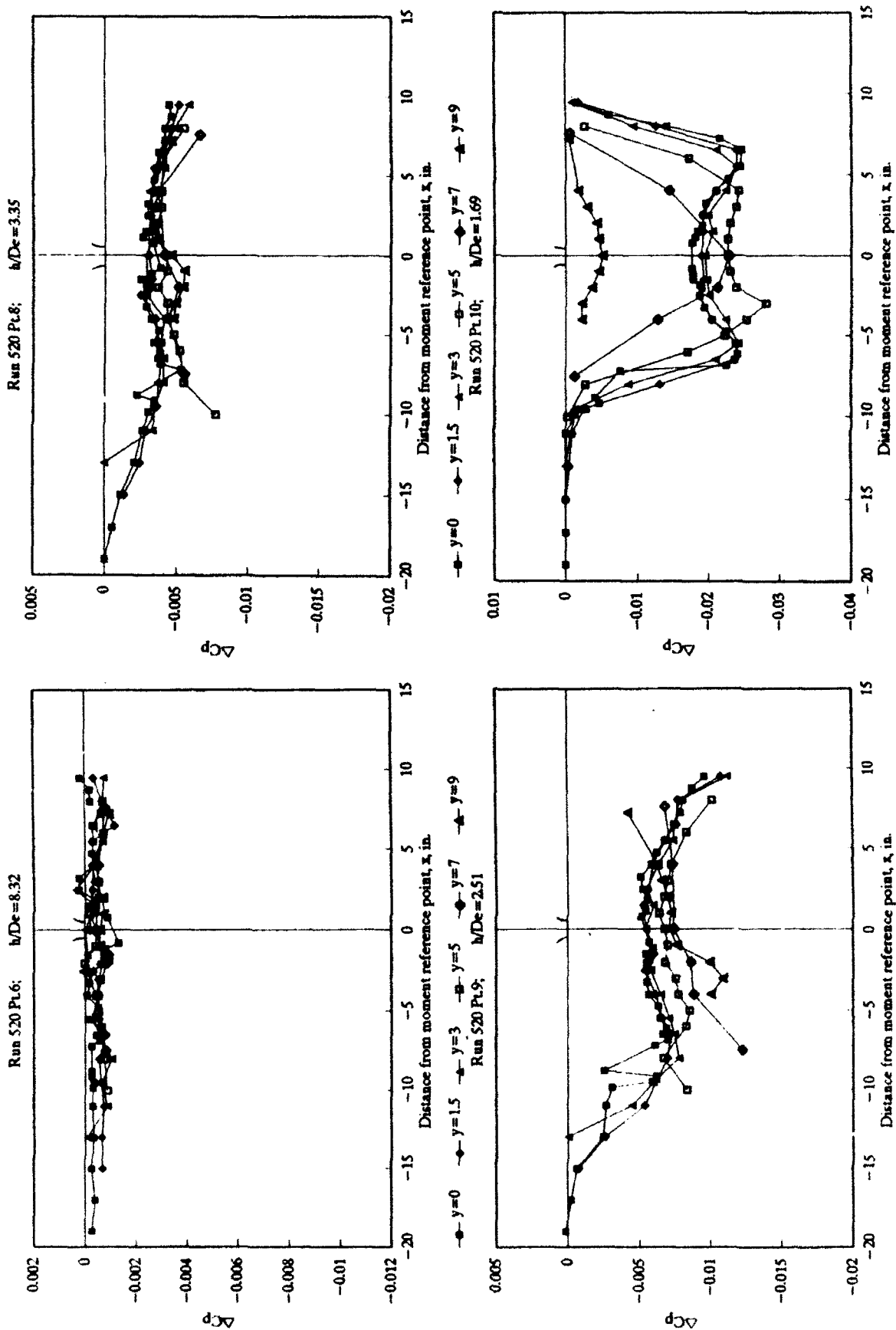


Fig. B-14 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
NPR=2 Run 520  $Ve=0$

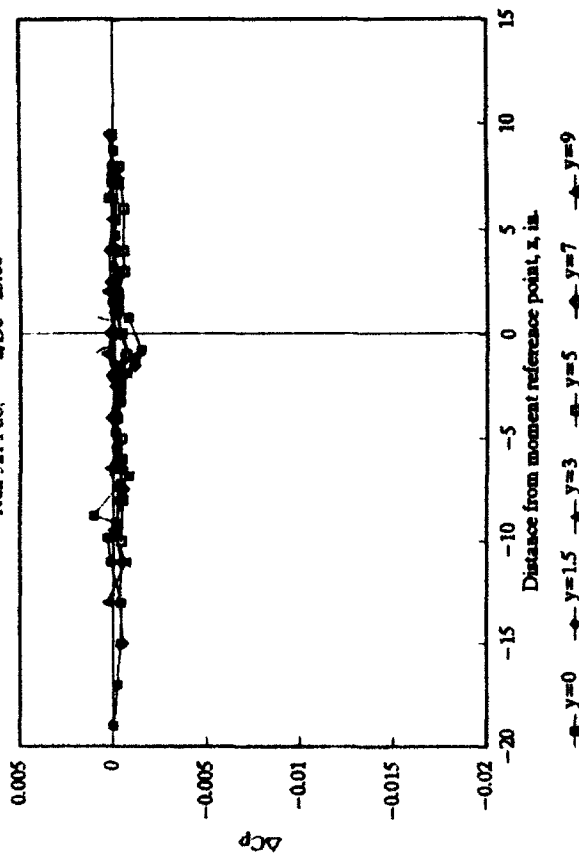
TABLE B-15 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - NPR=2  
Run 521  
Ve=0.2

Point	4	5	6	7	8	9	Point	4	5	6	7	8	9
N/Ds =	5.01	8.35	12.51	18.71	25	37.02	N/Ds =	5.01	8.35	12.51	18.71	25	37.02
Y	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	Y	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-19	-0.00112	-0.00103	-0.00083	-0.00039	-0.00003	3	-9.5	-0.00285	-0.00098	-0.00036	-0.00022	0.00009
0	-17	-0.00135	-0.00095	-0.00068	-0.00044	-0.00022	3	-8	-0.00320	-0.00116	-0.00078	-0.00057	-0.00042
0	-16	-0.00188	-0.00101	-0.00081	-0.00068	-0.00040	3	-6.5	-0.00247	-0.00049	0.00004	0.00013	0.00027
0	-13	-0.00230	-0.00090	-0.00074	-0.00064	-0.00042	3	-5.5	-0.00248	-0.00060	-0.00032	-0.00018	0.00010
0	-11	-0.00048	0.00008	0.00006	0.00012	0.00016	3	-4	-0.00237	-0.00057	-0.00030	-0.00008	-0.00006
0	-9.5	-0.00178	-0.00018	0.00016	0.00027	0.00038	3	-2.5	-0.00214	-0.00069	-0.00036	-0.00019	0.00018
0	-8.5	-0.00228	-0.00068	-0.00039	-0.00020	-0.00012	3	-1.5	-0.00203	-0.00049	-0.00023	-0.00002	0.00000
0	-8.15	-0.00227	-0.00065	-0.00031	-0.00013	-0.00007	3	0	-0.00200	-0.00046	0.00002	0.00012	0.00008
0	-7.2	-0.00102	0.00004	0.00047	0.00064	0.00107	3	1.5	-0.00228	-0.00030	-0.00020	-0.00008	-0.00003
0	-7.2	-0.00801	-0.00789	-0.00780	-0.00732	-0.00672	3	2.5	-0.00185	-0.00054	-0.00021	-0.00003	0.00001
0	-8.5	-0.00294	-0.00135	-0.00068	-0.00062	-0.00061	3	4	-0.00182	-0.00045	-0.00023	0.00001	0.00000
0	-8.5	-0.00242	-0.00078	-0.00041	-0.00025	-0.00020	3	5.5	-0.00138	-0.00034	-0.00007	0.00012	0.00018
0	-8.15	-0.00270	-0.00070	-0.00037	-0.00032	-0.00029	3	6.5	-0.00139	-0.00035	-0.00016	-0.00001	0.00008
0	-5.5	-0.00234	-0.00068	-0.00030	-0.00012	-0.00011	3	8	-0.00134	-0.00017	-0.00003	0.00008	0.00010
0	-4.75	-0.00239	-0.00066	-0.00040	-0.00007	-0.00014	3	9.5	-0.00118	-0.00024	-0.00011	0.00007	0.00010
0	-4	-0.00208	-0.00060	-0.00032	-0.00013	-0.00018	5	-10	-0.00487	-0.01048	-0.00068	-0.00035	-0.00043
0	-3.25	-0.0024	-0.00068	-0.00043	-0.00028	-0.00032	5	-8	-0.00438	-0.01048	-0.00060	-0.00035	-0.00044
0	-2.5	-0.00200	-0.00068	-0.00040	-0.00021	-0.00035	5	-6	-0.00384	-0.01048	-0.00057	-0.00033	-0.00040
0	-2.05	-0.00197	-0.00061	-0.00064	-0.00030	-0.00040	5	-4	-0.00346	-0.01112	-0.00067	-0.00037	-0.00041
0	-1.85	-0.00227	-0.00117	-0.00072	-0.00068	-0.00074	5	-4	-0.00317	-0.00070	-0.00032	-0.00031	-0.00008
0	-1.5	-0.00168	-0.00078	-0.00061	-0.00042	-0.00032	5	-3	-0.00301	-0.00067	-0.00041	-0.00036	-0.00027
0	-1.15	-0.00282	-0.00154	-0.00188	-0.00089	-0.00114	5	-2	-0.00275	-0.00069	-0.00035	-0.00011	-0.00004
0	-0.8	-0.00358	-0.00148	-0.00191	-0.00122	-0.00144	5	-1	-0.00278	-0.00132	-0.00081	-0.00040	-0.00068
0	0.8	-0.00140	-0.00118	-0.00169	-0.00104	-0.00045	5	0	-0.00308	-0.00111	-0.00064	-0.00039	-0.00029
0	1.15	-0.00189	-0.00118	-0.00102	-0.00068	-0.00026	5	1	-0.00278	-0.00063	-0.00033	-0.00018	0.00001
0	1.5	-0.00180	-0.00082	-0.00039	-0.00011	0.00007	5	2	-0.00277	-0.00084	-0.00043	-0.00023	-0.00008
0	1.85	-0.00227	-0.00128	-0.00078	-0.00046	-0.00028	5	3	-0.00288	-0.00123	-0.00071	-0.00057	-0.00034
0	2.5	-0.00134	-0.00092	-0.00036	-0.00017	-0.00008	5	4	-0.00348	-0.00122	-0.00076	-0.00065	-0.00035
0	3.25	-0.00107	-0.00038	-0.00019	-0.00007	0.00001	5	6	-0.00197	-0.00108	-0.00072	-0.00068	-0.00032
0	4	-0.00103	-0.00038	-0.00018	-0.00004	0.00003	5	8	-0.00203	-0.00062	-0.00041	-0.00038	-0.00018
0	4.75	-0.00087	-0.00043	-0.00032	-0.00012	-0.00010	5	-7.5	-0.00338	-0.0104	-0.00065	-0.00035	-0.00045
0	5.5	-0.00102	-0.00043	-0.00034	-0.00013	-0.00008	7	-4	-0.00256	-0.00062	-0.00012	0.00008	-0.00003
0	6.5	-0.00048	-0.00011	-0.00010	-0.00024	0.00027	7	-2	-0.00272	-0.00069	-0.00045	-0.00030	-0.00018
0	7.25	-0.00089	-0.00011	-0.00007	-0.00012	0.00011	7	0	-0.00232	-0.00066	-0.00008	0.00017	0.00013
0	8	-0.00098	-0.00021	-0.00019	-0.00002	0.00003	7	4	-0.00183	-0.00066	-0.00027	-0.00005	-0.00001
0	8.75	-0.00108	-0.00028	-0.00021	-0.00007	-0.00003	7	7.5	-0.00156	-0.00045	-0.00025	-0.00004	-0.00008
0	9.5	-0.00104	-0.00022	-0.00018	-0.00001	0.00004	8.5	-4	-0.00256	-0.00068	-0.00017	0.00001	-0.00016
0.8	-8	-0.00277	-0.00111	-0.00075	-0.00068	-0.00061	8.5	-3	-0.00238	-0.00062	-0.00006	0.00024	0.00018
0.8	-6	-0.00313	-0.00168	-0.00068	-0.00067	-0.00132	8.5	-2	-0.00249	-0.00070	-0.00018	-0.00004	-0.00002
1.5	-18	-0.00273	-0.00188	-0.00129	-0.00083	-0.00068	9	-2	-0.00249	-0.00070	-0.00018	-0.00004	-0.00002
1.5	-13	-0.00240	-0.00118	-0.00085	-0.00067	-0.00037	9	-1	-0.00213	-0.00036	0.00022	0.00036	0.00024
1.5	-11	-0.00257	-0.00098	-0.00068	-0.00052	-0.00039	9	0	-0.00234	-0.00057	-0.00004	0.00015	0.00008
1.5	-9.5	-0.00231	-0.00087	-0.00068	-0.00052	-0.00039	9	1	-0.00288	-0.00063	-0.00008	-0.00008	-0.00012
1.5	-8	-0.00231	-0.00087	-0.00068	-0.00052	-0.00039	9	2	-0.00238	-0.00062	-0.00006	0.00024	0.00018
1.5	-6.5	-0.00258	-0.00071	-0.00032	-0.00017	-0.00015	9	3	-0.00258	-0.00127	-0.00069	-0.00033	-0.00029
1.5	-5.5	-0.00248	-0.00042	-0.00004	-0.00017	0.00015	9	4	-0.00178	-0.00068	-0.00025	0.00001	0.00004
1.5	-4.5	-0.00211	-0.00044	-0.00013	-0.00008	-0.00010	10	7.2	-0.00189	-0.00060	-0.00058	-0.00031	-0.00022
1.5	-2.5	-0.00169	-0.00044	-0.00013	-0.00008	-0.00010	10	0	-0.00288	-0.00108	-0.00052	-0.00041	-0.00038
1.5	-1.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	11	0	-0.00288	-0.00063	-0.00037	-0.00020	-0.00012
1.5	-0.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	11	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	0.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	1.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	2.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	3.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	4.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	5.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	6.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	7.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	8.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	9.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	10.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	11.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	12.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024
1.5	13.5	-0.00238	-0.00068	-0.00038	-0.00044	-0.00110	12	4	-0.00288	-0.00107	-0.00048	-0.00030	-0.00024

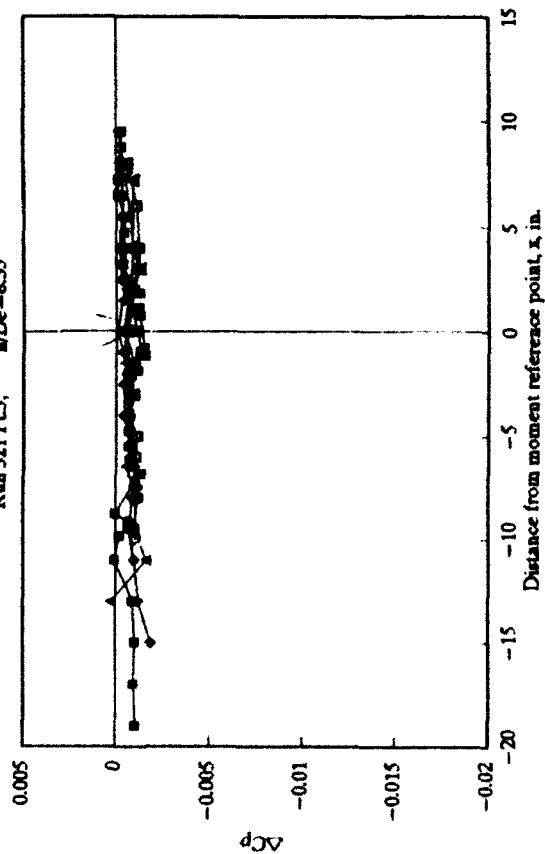
Force and Moment Summary

N/Ds =	5.01	8.35	12.51	18.71	25	37.02
Balance	d/LT =	-0.384	-0.184	-0.084	-0.048	-0.036
Pressure	d/LT =	-0.458	-0.154	-0.078	-0.038	-0.017
Balance	dM/DTDs =	-0.747	-0.328	-0.109	-0.082	-0.074
Pressure	dM/DTDs =	-0.783	-0.294	-0.202	-0.165	-0.132

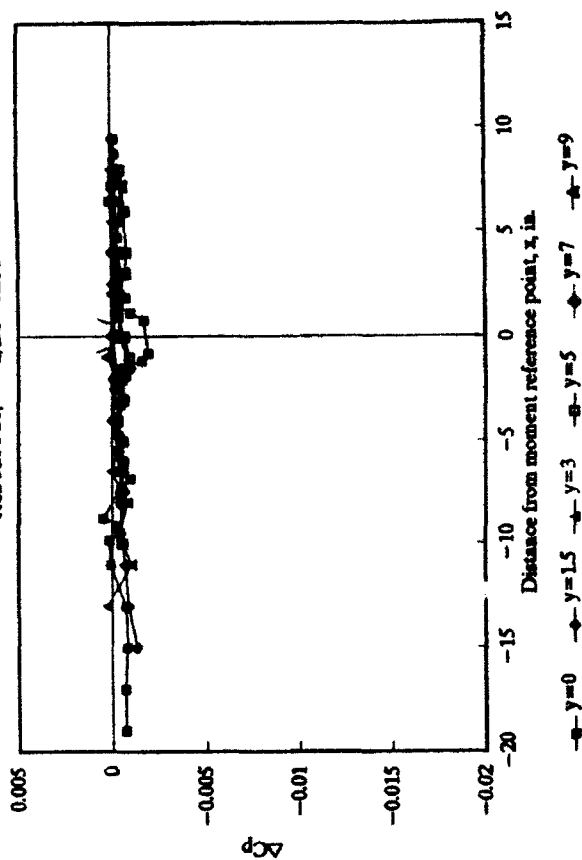
Run 521 Pt.8;  $b/De = 25.00$



Run 521 Pt.5;  $b/De = 8.35$



Run 521 Pt.6;  $b/De = 12.51$



Run 521 Pt.4;  $b/De = 5.01$

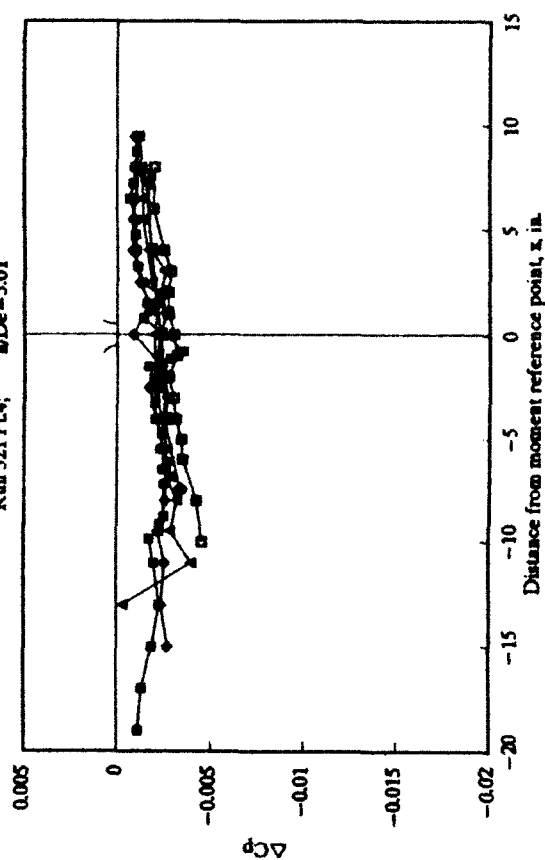


Fig.B-15 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20

NPR-2 Run 521 Ver.02

TABLE B-16 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - NPR=2  
Rum 522 Ve=.04

Point	1	2	3	4	5	6	7	8
NDA =	37.02	25.04	16.7	12.56	8.04	5.04	3.36	1.96
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-17	0.00016	0.00017	0.00008	-0.00004	-0.00032	0.00077	0.00069
0	-17	0.00004	-0.00008	-0.00028	-0.00081	-0.00170	-0.00029	0.00068
0	-16	0.00020	-0.00026	-0.00056	-0.00105	-0.00233	-0.00043	0.00064
0	-15	0.00021	-0.00029	-0.00068	-0.00133	-0.00288	-0.00048	0.00058
0	-14	0.00018	-0.00033	-0.00094	-0.00168	-0.00359	-0.00048	0.00058
0	-13	0.00011	-0.00013	-0.00012	-0.00008	-0.00011	-0.00048	0.00002
0	-9.85	0.00027	-0.00020	-0.00022	-0.00021	-0.00012	-0.00071	0.00019
0	-9.8	0.00009	-0.00020	-0.00028	-0.00059	-0.00114	-0.00080	0.00015
0	-9.15	0.00014	-0.00028	-0.00066	-0.00121	-0.00283	-0.00067	0.00024
0	-8.6	0.00011	-0.00040	-0.00060	-0.00098	-0.00183	-0.00137	0.00059
0	-7.2	0.00017	-0.00047	-0.00072	-0.00098	-0.00173	-0.00148	0.00074
0	-6.6	0.00079	-0.00098	-0.00130	-0.00173	-0.00287	-0.00078	0.00063
0	-6.5	0.00035	-0.00045	-0.00063	-0.00121	-0.00218	-0.00062	0.00067
0	-6.15	0.00064	-0.00068	-0.00086	-0.00138	-0.00235	-0.00064	0.00067
0	-5.5	0.00041	-0.00044	-0.00061	-0.00116	-0.00204	-0.00068	0.00074
0	-4.75	0.00041	-0.00049	-0.00078	-0.00108	-0.00271	-0.00062	0.00074
0	-4.4	0.00044	-0.00055	-0.00083	-0.00113	-0.00273	-0.00064	0.00068
0	-3.25	0.00066	-0.00070	-0.00100	-0.00128	-0.00274	-0.00068	0.00142
0	-2.6	0.00065	-0.00068	-0.00088	-0.00109	-0.00288	-0.00068	0.00068
0	-2.6	0.00070	-0.00080	-0.00101	-0.00118	-0.00272	-0.00064	0.00063
0	-1.65	0.00063	-0.00078	-0.00108	-0.00134	-0.00281	-0.00062	0.00064
0	-1.5	0.00067	-0.00080	-0.00096	-0.00097	-0.00268	-0.00061	0.00065
0	-1.15	0.00102	-0.00122	-0.00130	-0.00145	-0.00262	-0.00072	0.00065
0	-0.8	0.00063	-0.00114	-0.00111	-0.00131	-0.00263	-0.00074	0.00172
0	0.8	0.00156	-0.00080	-0.00029	-0.00021	-0.00031	-0.00048	0.00064
0	1.15	0.00035	-0.00049	-0.00129	-0.00138	-0.00341	-0.00047	0.00178
0	1.5	0.00013	0.00002	-0.00064	-0.00064	-0.00282	-0.00076	0.00176
0	1.85	0.00013	0.00003	-0.00047	-0.00070	-0.00281	-0.00042	0.00167
0	2.5	0.00018	0.00004	-0.00018	-0.00033	-0.00088	-0.00062	0.00167
0	3.25	0.00028	0.00010	-0.00007	-0.00026	-0.00030	-0.00031	0.00168
0	4.0	0.00037	0.00010	0.00002	-0.00008	-0.00048	-0.00048	0.00162
0	4.75	0.00008	-0.00001	-0.00019	-0.00022	-0.00088	-0.00089	0.00165
0	5.5	0.00006	-0.00011	-0.00013	-0.00019	-0.00189	-0.00084	0.00233
0	6.5	0.00042	0.00034	0.00032	0.00028	0.00112	-0.00186	0.00247
0	7.25	0.00028	0.00019	0.00022	0.00028	0.00088	-0.00183	0.00217
0	8	0.00017	0.00008	0.00005	0.00002	-0.00010	-0.00218	0.00163
0	8.75	0.00014	0.00006	0.00002	0.00000	-0.00100	-0.00231	0.00045
0	9.5	0.00012	0.00002	0.00000	-0.00007	-0.00098	-0.00073	0.00078
0.8	-8	0.00062	-0.00063	-0.00087	-0.00143	-0.00384	-0.00068	0.00207
0.8	0	0.00489	-0.00490	-0.00468	-0.00371	-0.00409	-0.00063	0.00194
1.5	-15	0.00021	-0.00027	-0.00058	-0.00109	-0.00244	-0.00080	0.00039
1.5	-13	0.00028	-0.00037	-0.00076	-0.00129	-0.00288	-0.00084	0.00024
1.5	-11	0.00031	-0.00049	-0.00083	-0.00145	-0.00309	-0.00081	0.00018
1.5	-8.5	0.00015	-0.00028	-0.00068	-0.00124	-0.00373	-0.00078	0.00065
1.5	-8	0.00033	-0.00045	-0.00081	-0.00138	-0.00343	-0.00048	0.00117
1.5	-6.5	0.00060	-0.00067	-0.00106	-0.00137	-0.00380	-0.00068	0.00065
1.5	-5.5	0.00028	-0.00048	-0.00081	-0.00106	-0.00278	-0.00060	0.00098
1.5	-4	0.00008	-0.00018	-0.00040	-0.00064	-0.00202	-0.00073	0.00202
1.5	-2.5	0.00037	-0.00064	-0.00071	-0.00089	-0.00216	-0.00060	0.00208
1.5	-1.8	0.00148	-0.00178	-0.00176	-0.00176	-0.00084	-0.00081	0.00201
1.5	0	0.00068	-0.00041	-0.00036	-0.00040	-0.00060	-0.00064	0.00066
1.5	1.5	0.00018	0.00032	0.00032	0.00043	0.00081	-0.00041	0.00182
1.5	2.5	0.00037	0.00030	0.00015	0.00020	-0.00074	-0.00060	0.00168
1.5	4	0.00042	0.00034	0.00035	0.00030	-0.00173	-0.00098	0.00243
1.5	5.5	0.00018	0.00016	0.00012	0.00007	-0.00187	-0.00208	0.00241
1.5	6.5	0.00018	0.00015	0.00009	0.00010	-0.00131	-0.00207	0.00241
1.5	8	0.00007	0.00008	0.00001	0.00003	-0.00104	-0.00204	0.00148
1.5	9.5	0.00028	0.00028	0.00024	0.00036	-0.00072	-0.00237	0.00278
3	-13	0.00074	0.00072	0.00078	0.00076	0.00087	0.00037	0.00062
3	-11	0.00043	-0.00061	-0.00073	-0.00128	-0.00439	-0.00063	-0.00041

Force and Moment Summary

NDA =	37.02	25.04	16.7	12.56	8.04	5.04	3.36	1.96
Balance	dJ =	-0.053	-0.070	-0.121	-0.190	-0.327	-0.869	-2.186
Pressure	dJ =	-0.027	-0.030	-0.067	-0.109	-0.182	-0.834	-2.208
Balance	dM/Da =	-0.037	-0.030	-0.067	-0.109	-0.182	-0.834	-2.208
Pressure	dM/Da =	-0.111	-0.146	-0.316	-0.587	-1.066	-1.647	-3.343

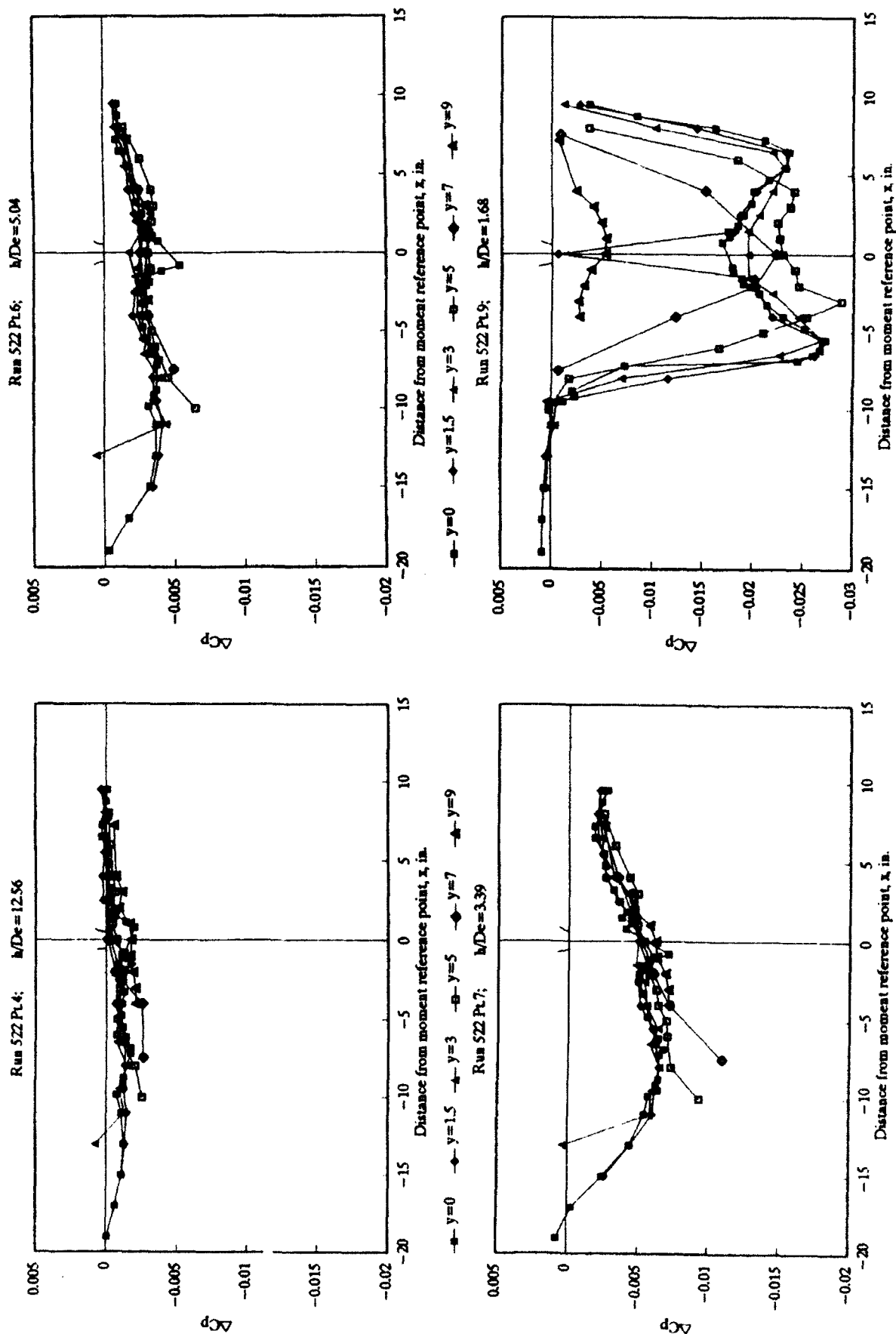


Fig.B-16 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
NPR=2 Run 522 Ver.04



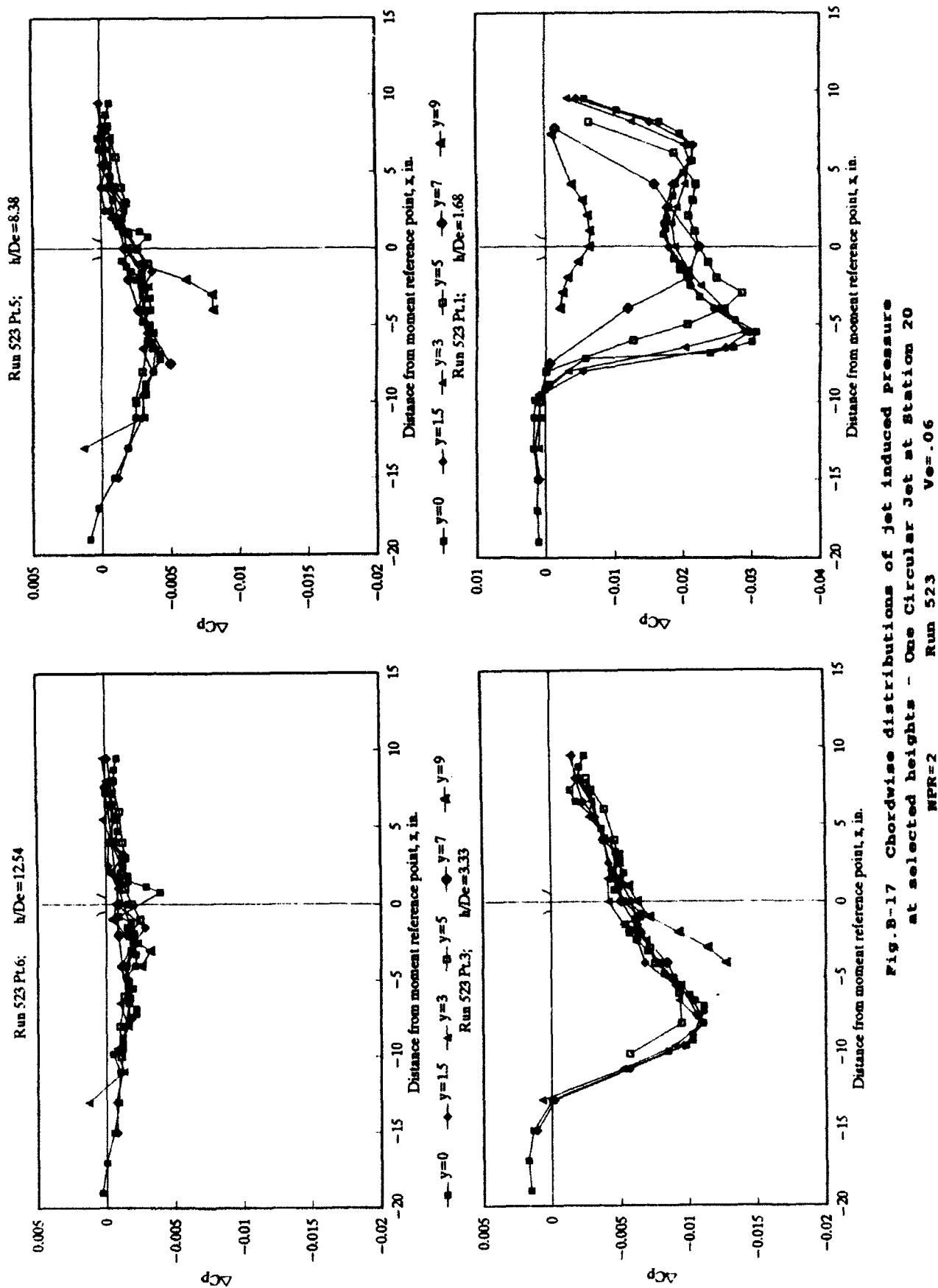


Fig.B-17 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20

MFR=2 Run 523  $Ve=.06$





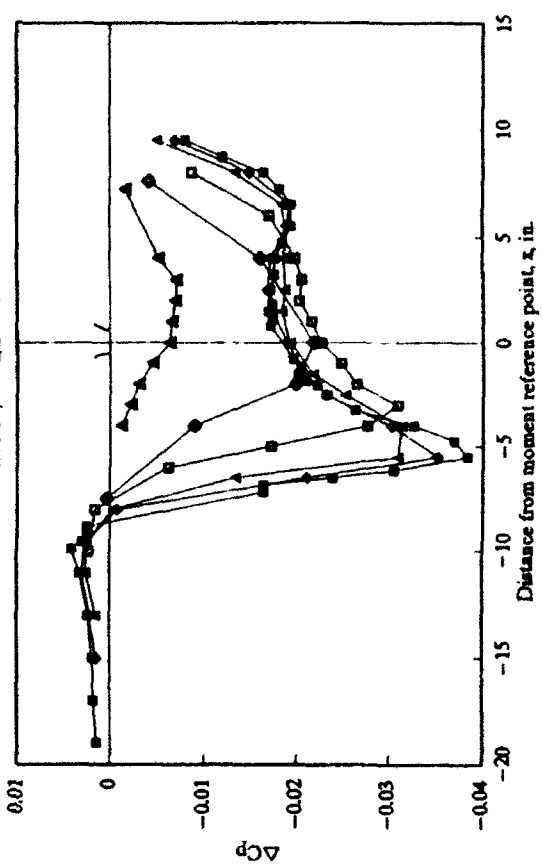
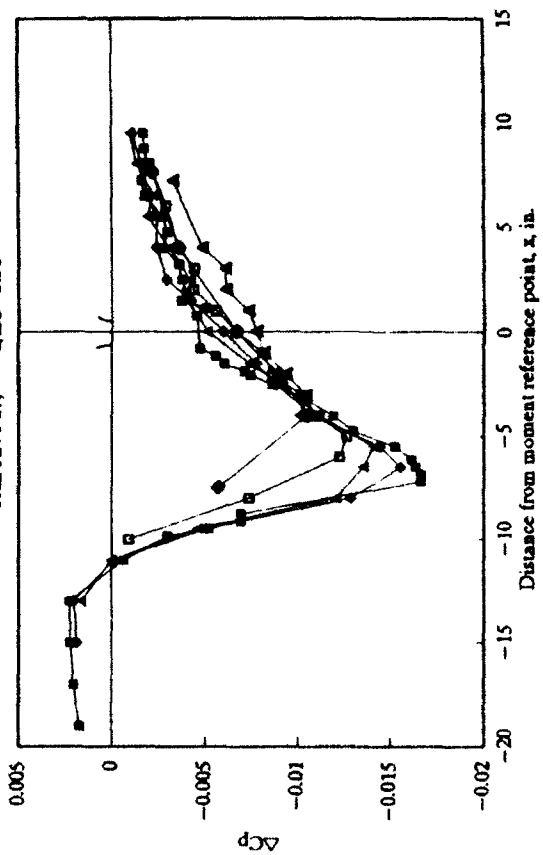
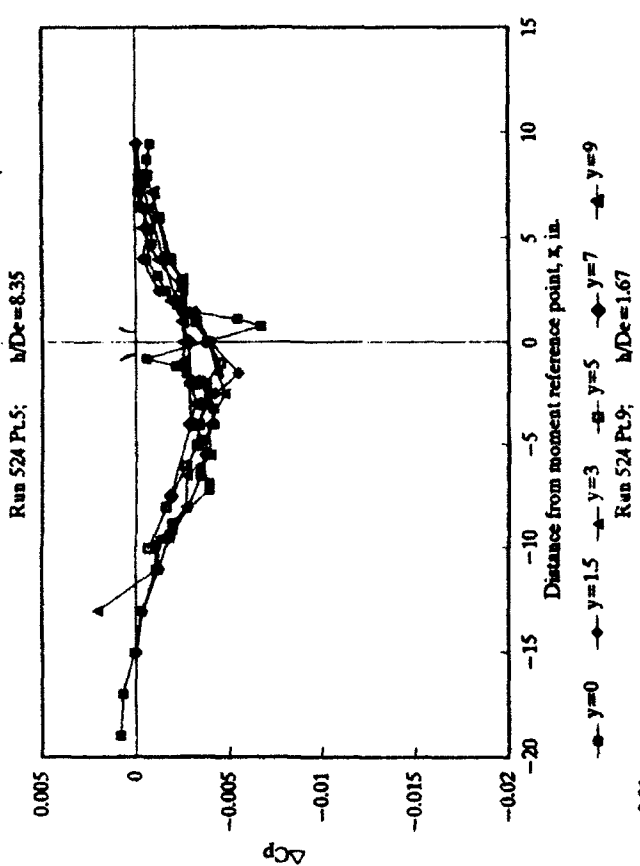
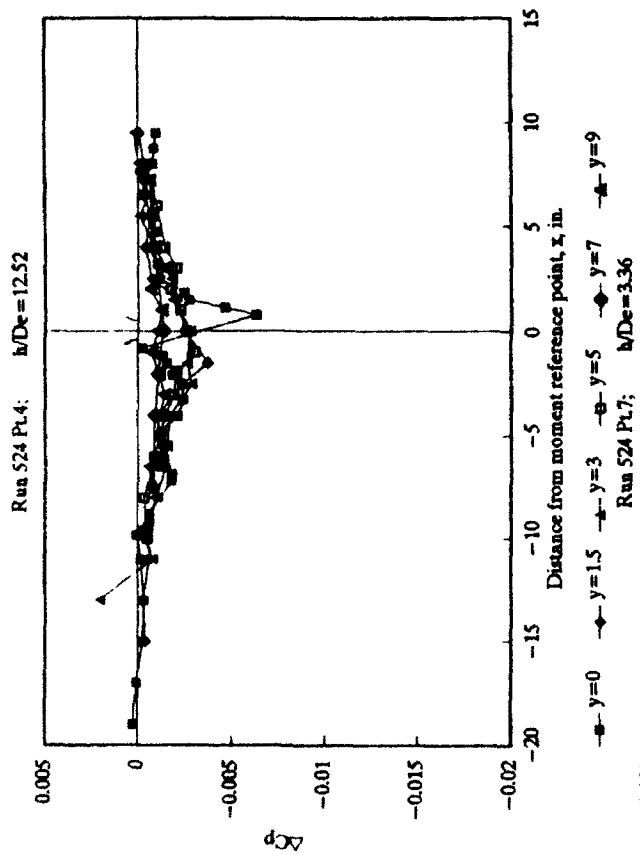


Fig.B-18 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20

NPR-2 Run 524 Ver.08

Run 525  $Vo=.1$ 

Force and Moment Summary		
Balance	$dT =$	-1.77
Pressure	$dT =$	-2.00
Balance	$dMTDe =$	2.52
Pressure	$dMTDe =$	2.27

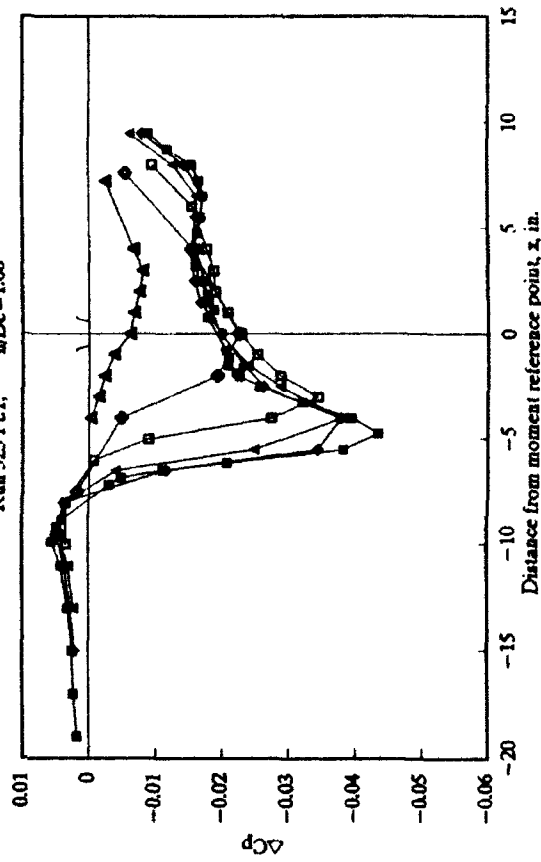
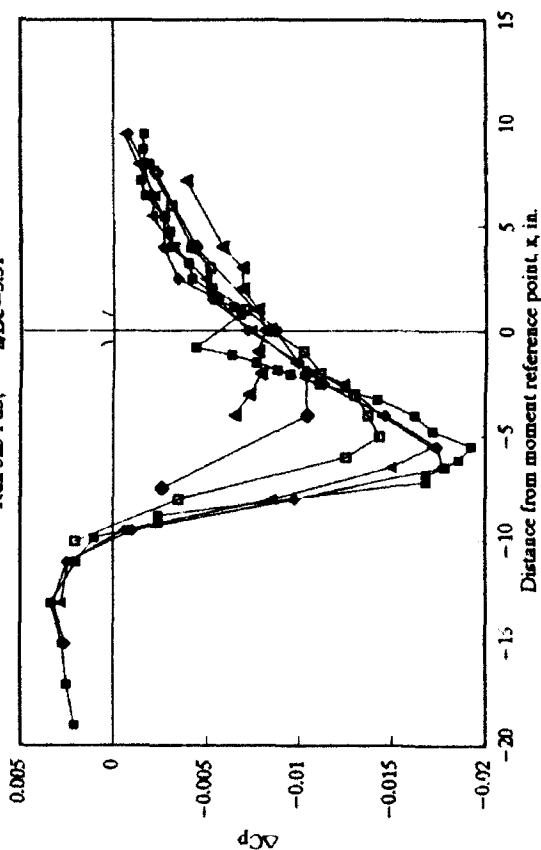
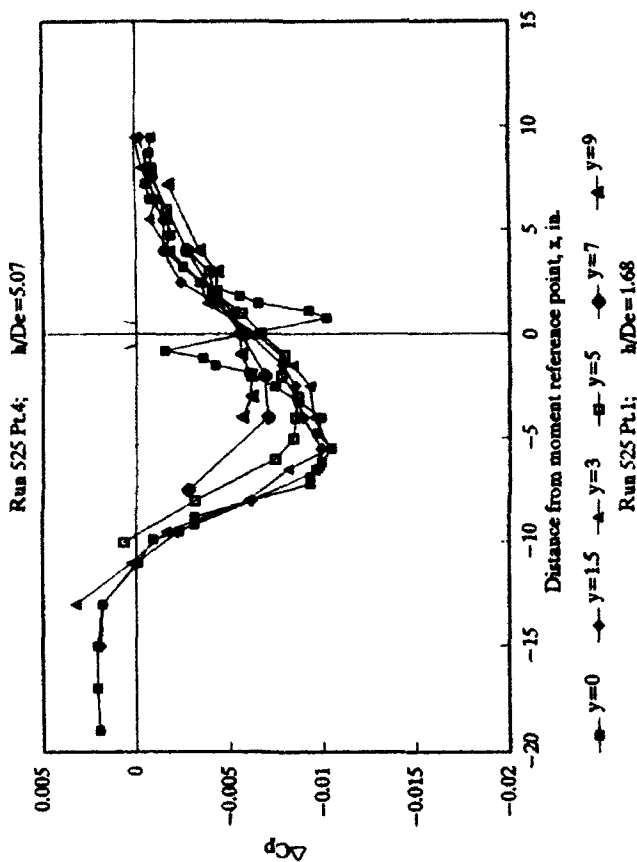
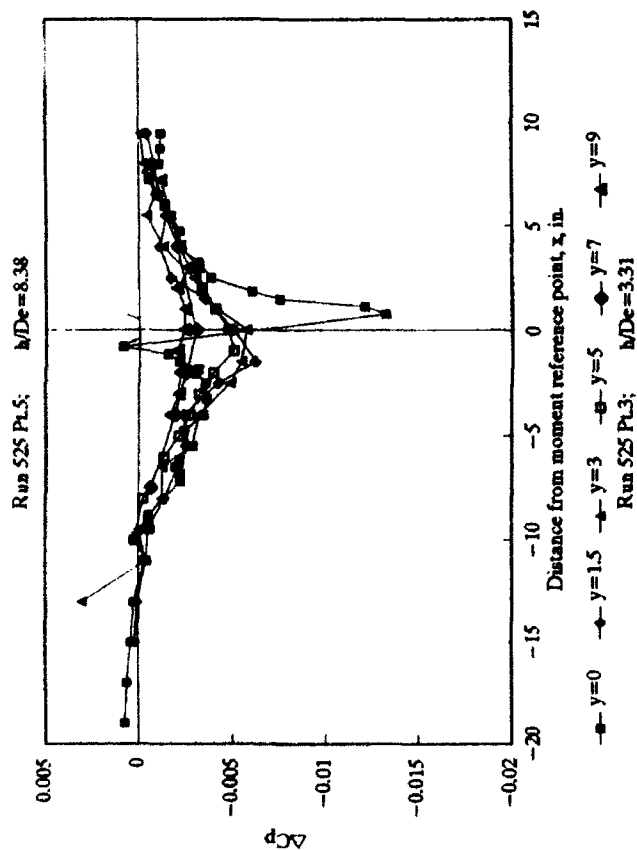


Fig.B-19 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
NPR=2 Run 525  $Ve=.1$

$$ve=.15$$

### Force and Moment Summary

Balance  
 Proccure  
 Balance  
 Proccure

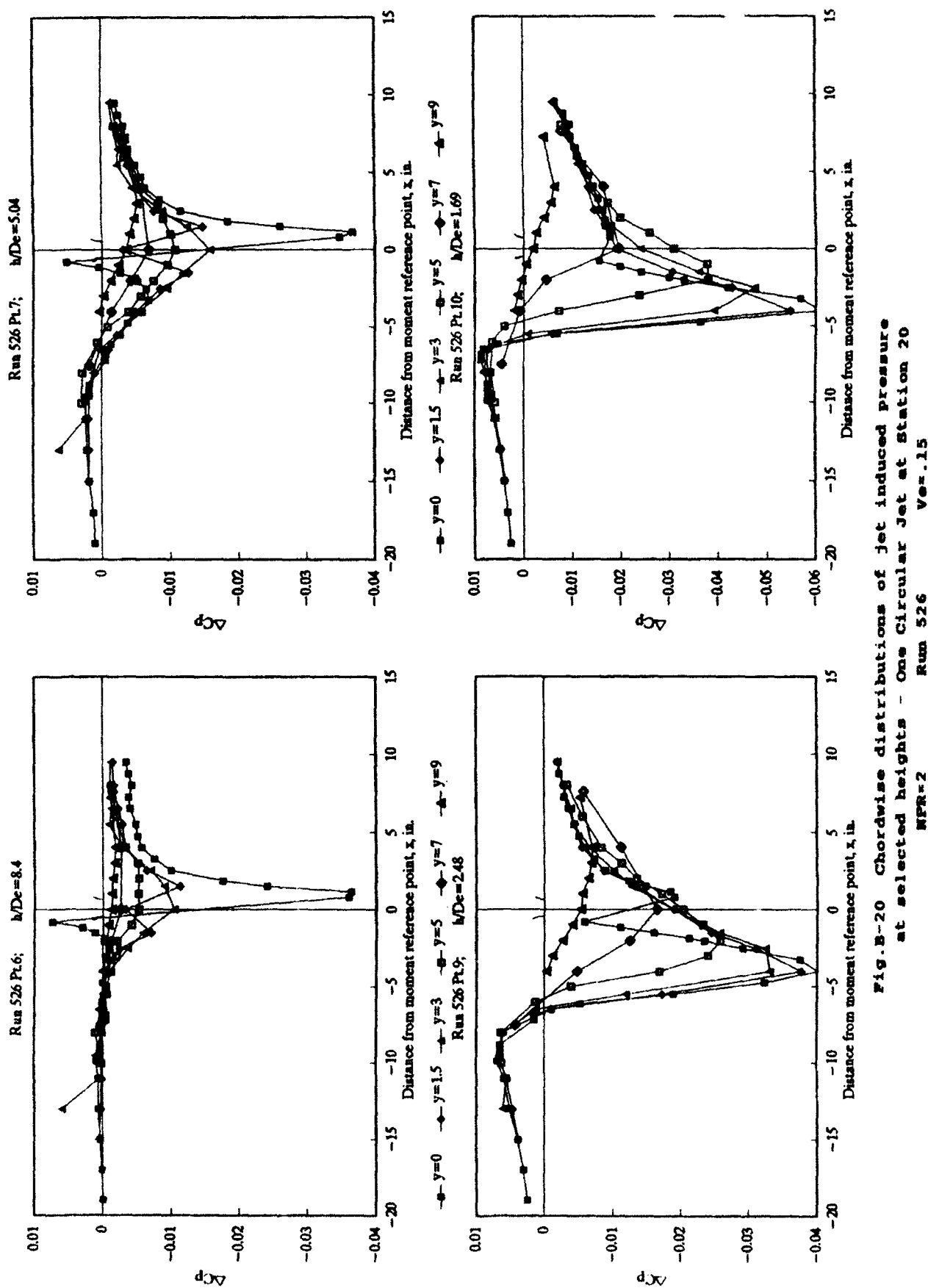


Fig.B-20 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20  
NPR-2 Run 526  $Ve=.15$

Run 527  
Ver=2

### Force and Moment Summary

**Pressure dusts =**

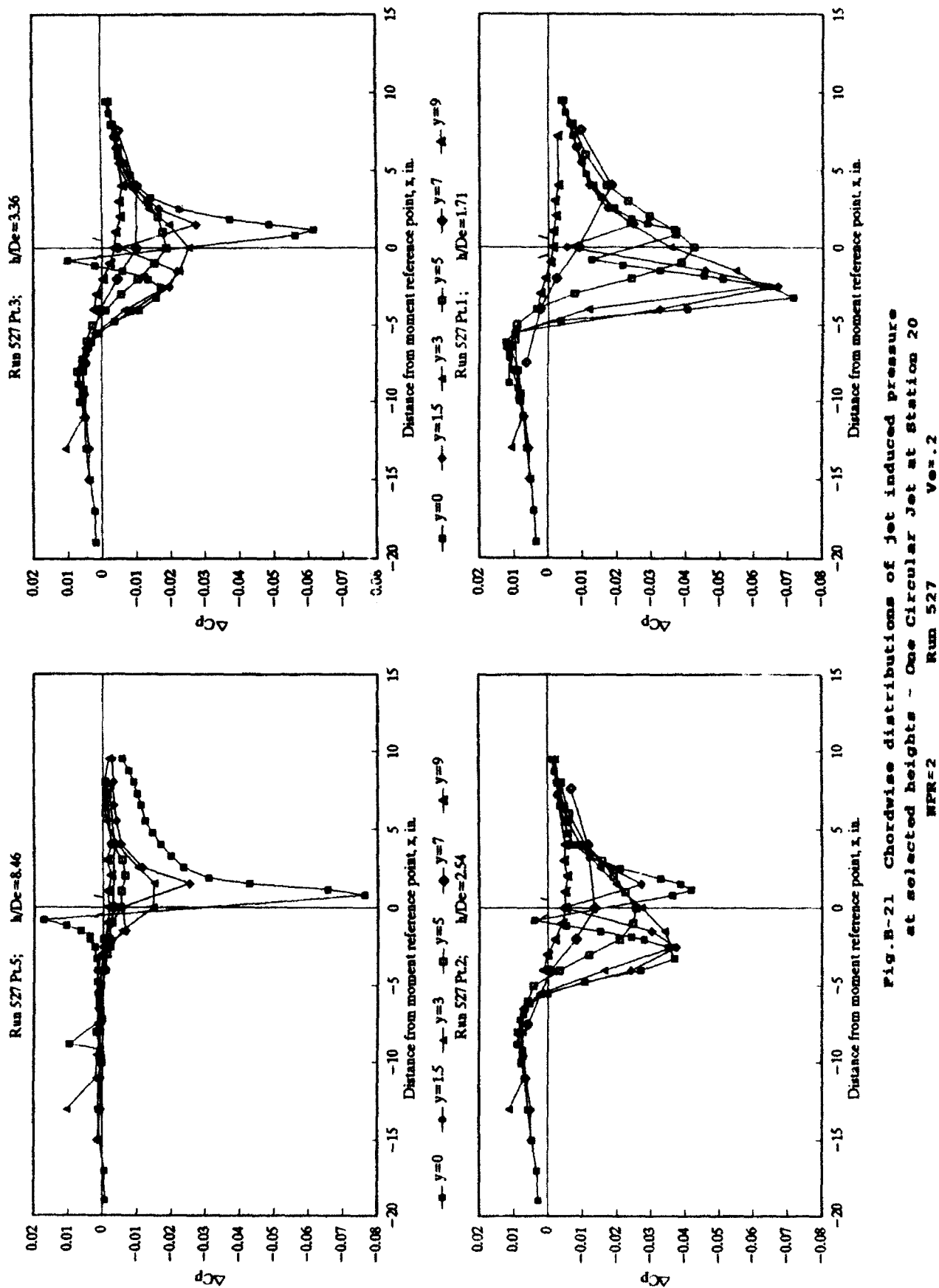


Fig. B-21 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20

MFR=2 Run 527  $Ve=.2$





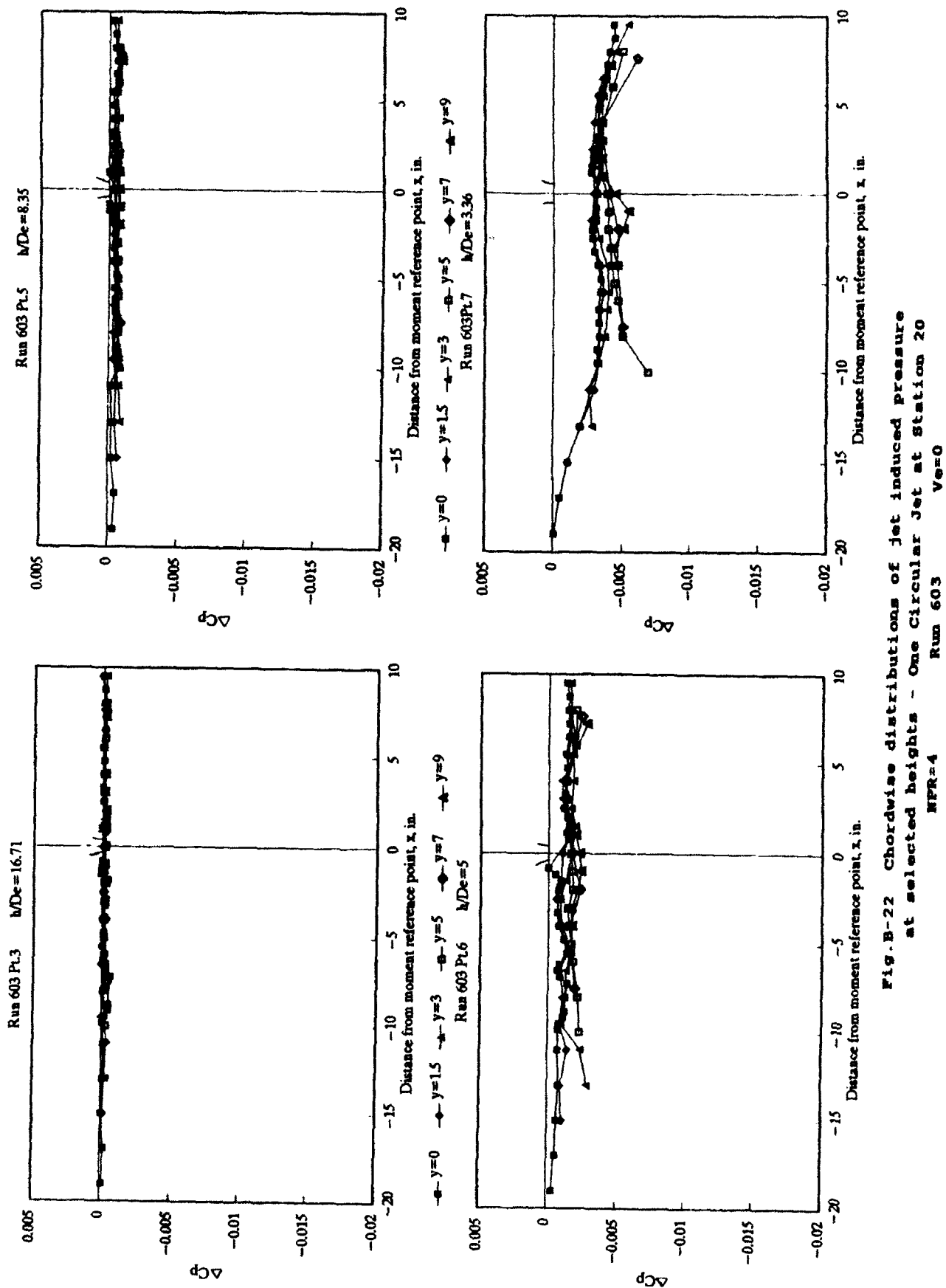


Fig.B-22 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20

Run 603  $Ve=0$

$NPR=4$

TABLE B-23 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - NPR=4

Run 604

Ve=0.2

Point NDe =	1	2	3	4	5	6	7	Point NDe =	1	2	3	4	5	6	7
y	x	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	y	x	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$
0	-19	0.0002	-0.0003	-0.0007	-0.0010	-0.0006	-0.0001	3	-8.5	-0.0077	-0.0042	-0.0023	-0.0012	-0.0006	-0.0002
0	-17	-0.0000	-0.0007	-0.0010	-0.0010	-0.0008	-0.0002	3	-8	-0.0110	-0.0048	-0.0022	-0.0010	-0.0006	-0.0002
0	-15	-0.0001	-0.0016	-0.0013	-0.0007	-0.0008	-0.0002	3	-8.5	-0.0116	-0.0051	-0.0021	-0.0009	-0.0006	-0.0001
0	-13	-0.0007	-0.0028	-0.0018	-0.0008	-0.0008	-0.0003	3	-5.5	-0.0111	-0.0048	-0.0023	-0.0008	-0.0004	-0.0002
0	-11	-0.0008	-0.0004	-0.0003	-0.0003	-0.0003	-0.0001	3	-4	-0.0086	-0.0048	-0.0021	-0.0007	-0.0003	-0.0002
0	-9.5	-0.0003	-0.0002	-0.0018	-0.0008	-0.0004	-0.0002	3	-2.5	-0.0094	-0.0042	-0.0019	-0.0007	-0.0004	-0.0002
0	-8.75	-0.0107	-0.0043	-0.0018	-0.0008	-0.0005	-0.0003	3	-1.5	-0.0087	-0.0039	-0.0017	-0.0006	-0.0003	-0.0002
0	-8	-0.0114	-0.0043	-0.0018	-0.0007	-0.0004	-0.0002	3	0	-0.0085	-0.0034	-0.0017	-0.0006	-0.0003	-0.0002
0	-7.25	-0.0113	-0.0042	-0.0018	-0.0007	-0.0004	-0.0002	3	1.5	-0.0083	-0.0034	-0.0016	-0.0007	-0.0003	-0.0001
0	-6.5	-0.0110	-0.0041	-0.0018	-0.0007	-0.0003	-0.0002	3	2.5	-0.0085	-0.0033	-0.0014	-0.0006	-0.0002	0.0002
0	-5.5	-0.0108	-0.0041	-0.0020	-0.0007	-0.0003	-0.0002	3	4	-0.0088	-0.0031	-0.0013	-0.0006	-0.0002	0.0001
0	-4.75	-0.0087	-0.0036	-0.0018	-0.0007	-0.0003	-0.0001	3	6.5	-0.0106	-0.0033	-0.0012	-0.0006	-0.0002	0.0001
0	-4	-0.0087	-0.0036	-0.0018	-0.0008	-0.0004	-0.0002	3	8.5	-0.0111	-0.0032	-0.0011	-0.0006	-0.0003	0.0001
0	-3.25	-0.0086	-0.0036	-0.0018	-0.0007	-0.0003	-0.0003	3	9.5	-0.0085	-0.0037	-0.0009	-0.0004	-0.0003	0.0001
0	-2.5	-0.0082	-0.0034	-0.0014	-0.0006	-0.0003	-0.0004	3	-10	-0.0040	-0.0089	-0.0034	-0.0012	-0.0006	-0.0002
0	-2.05	-0.0080	-0.0034	-0.0013	-0.0006	-0.0003	-0.0004	5	-8	-0.0085	-0.0082	-0.0034	-0.0011	-0.0004	-0.0003
0	-1.85	-0.0086	-0.0033	-0.0013	-0.0008	-0.0003	-0.0003	5	-6	-0.0121	-0.0056	-0.0029	-0.0010	-0.0004	-0.0002
0	-1.5	-0.0086	-0.0033	-0.0018	-0.0008	-0.0003	-0.0003	5	-4	-0.0126	-0.0054	-0.0027	-0.0010	-0.0004	-0.0003
0	-1.15	-0.0083	-0.0036	-0.0016	-0.0009	-0.0003	-0.0003	5	-5	-0.0120	-0.0052	-0.0028	-0.0010	-0.0005	-0.0003
0	-0.8	-0.0089	-0.0042	-0.0022	-0.0010	-0.0014	-0.0008	5	-3	-0.0122	-0.0048	-0.0023	-0.0008	-0.0004	-0.0002
0	0	-0.0083	-0.0030	-0.0013	-0.0011	-0.0020	-0.0008	5	-2	-0.0104	-0.0046	-0.0021	-0.0008	-0.0006	-0.0003
0	1.15	-0.0084	-0.0032	-0.0016	-0.0010	-0.0014	-0.0007	5	-1	-0.0096	-0.0043	-0.0021	-0.0008	-0.0006	-0.0003
0	1.85	-0.0082	-0.0028	-0.0011	-0.0008	-0.0007	-0.0004	5	0	-0.0087	-0.0044	-0.0019	-0.0008	-0.0006	-0.0002
0	2.15	-0.0083	-0.0028	-0.0012	-0.0008	-0.0006	-0.0003	5	1	-0.0082	-0.0042	-0.0022	-0.0008	-0.0006	-0.0001
0	2.5	-0.0084	-0.0027	-0.0008	-0.0003	-0.0002	-0.0001	5	2	-0.0086	-0.0039	-0.0020	-0.0008	-0.0004	-0.0001
0	3.25	-0.0011	-0.0004	0.0003	0.0006	0.0013	0.0016	5	3	-0.0089	-0.0038	-0.0018	-0.0007	-0.0004	-0.0001
0	4.5	-0.0083	-0.0027	-0.0004	-0.0003	-0.0002	-0.0001	5	4	-0.0106	-0.0034	-0.0015	-0.0007	-0.0004	-0.0001
0	5.15	-0.0088	-0.0029	-0.0005	-0.0004	-0.0003	-0.0001	5	6	-0.0111	-0.0036	-0.0012	-0.0007	-0.0004	-0.0001
0	5.5	-0.0106	-0.0028	-0.0005	-0.0004	-0.0004	-0.0001	5	8	-0.0078	-0.0042	-0.0017	-0.0004	-0.0004	-0.0002
0	5.95	-0.0110	-0.0030	-0.0007	-0.0005	-0.0004	-0.0002	5	-7.5	-0.0084	-0.0083	-0.0028	-0.0010	-0.0008	-0.0005
0	6.5	-0.0113	-0.0030	-0.0008	-0.0004	-0.0002	-0.0001	7	-4	-0.0116	-0.0053	-0.0023	-0.0008	-0.0004	-0.0002
0	7.25	-0.0114	-0.0031	-0.0008	-0.0004	-0.0002	-0.0001	7	-2	-0.0125	-0.0051	-0.0022	-0.0008	-0.0004	-0.0002
0	8	-0.0108	-0.0032	-0.0007	-0.0004	-0.0003	-0.0001	7	0	-0.0116	-0.0049	-0.0021	-0.0009	-0.0003	-0.0002
0	8.75	-0.0096	-0.0034	-0.0008	-0.0005	-0.0004	-0.0001	7	4	-0.0100	-0.0033	-0.0014	-0.0008	-0.0003	-0.0001
0	9.5	-0.0086	-0.0036	-0.0009	-0.0004	-0.0004	-0.0001	7	7.5	-0.0064	-0.0046	-0.0017	-0.0008	-0.0004	-0.0001
0.5	0	-0.0081	-0.0034	-0.0008	-0.0004	-0.0004	-0.0001	8.5	-4	-0.0106	-0.0032	-0.0021	-0.0007	-0.0003	-0.0003
1.5	0	-0.0081	-0.0034	-0.0008	-0.0004	-0.0004	-0.0001	8	-3	-0.0080	-0.0049	-0.0019	-0.0007	-0.0003	-0.0003
1.5	0.5	0.0007	0.0000	-0.0001	0.0002	0.0008	0.0011	9	-2	-0.0084	-0.0048	-0.0022	-0.0008	-0.0004	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	9	-1	-0.0080	-0.0046	-0.0021	-0.0007	-0.0003	-0.0001
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	9	0	-0.0082	-0.0046	-0.0021	-0.0007	-0.0003	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	9	1	-0.0080	-0.0046	-0.0022	-0.0008	-0.0004	-0.0003
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	9	2	-0.0086	-0.0037	-0.0022	-0.0008	-0.0004	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	9	3	-0.0078	-0.0032	-0.0019	-0.0009	-0.0004	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	9	4	-0.0088	-0.0031	-0.0014	-0.0008	-0.0003	-0.0001
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	9	7.2	-0.0022	-0.0032	-0.0013	-0.0007	-0.0003	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	10	0	-0.0086	-0.0043	-0.0021	-0.0008	-0.0004	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	11	0	-0.0047	-0.0086	-0.0021	-0.0008	-0.0004	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	11	4	-0.0021	-0.0023	-0.0020	-0.0008	-0.0004	-0.0002
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	12	4	-0.0028	-0.0018	-0.0008	-0.0007	-0.0004	-0.0001
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	12	6.5	-0.0002	-0.0013	-0.0011	-0.0007	-0.0004	-0.0001
1.5	1.5	-0.0007	-0.0018	-0.0017	-0.0016	-0.0008	-0.0007	13	4	-0.0003	-0.0008	-0.0003	-0.0007	-0.0004	-0.0001

Force and Moment Summary

NDe =	2.47	3.36	5.04	8.35	12.52	16.7	34.81
Balance	dL/T = -1.46	-0.775	-0.375	-0.184	-0.081	-0.040	-0.043
Pressure	dL/T = -1.484	-0.773	-0.369	-0.187	-0.087	-0.046	-0.037
Balance	dM/TDe = -0.481	-0.928	-0.833	-0.438	-0.241	-0.230	-0.230
Pressure	dM/TDe = -0.685	-0.983	-0.710	-0.357	-0.189	-0.173	-0.143

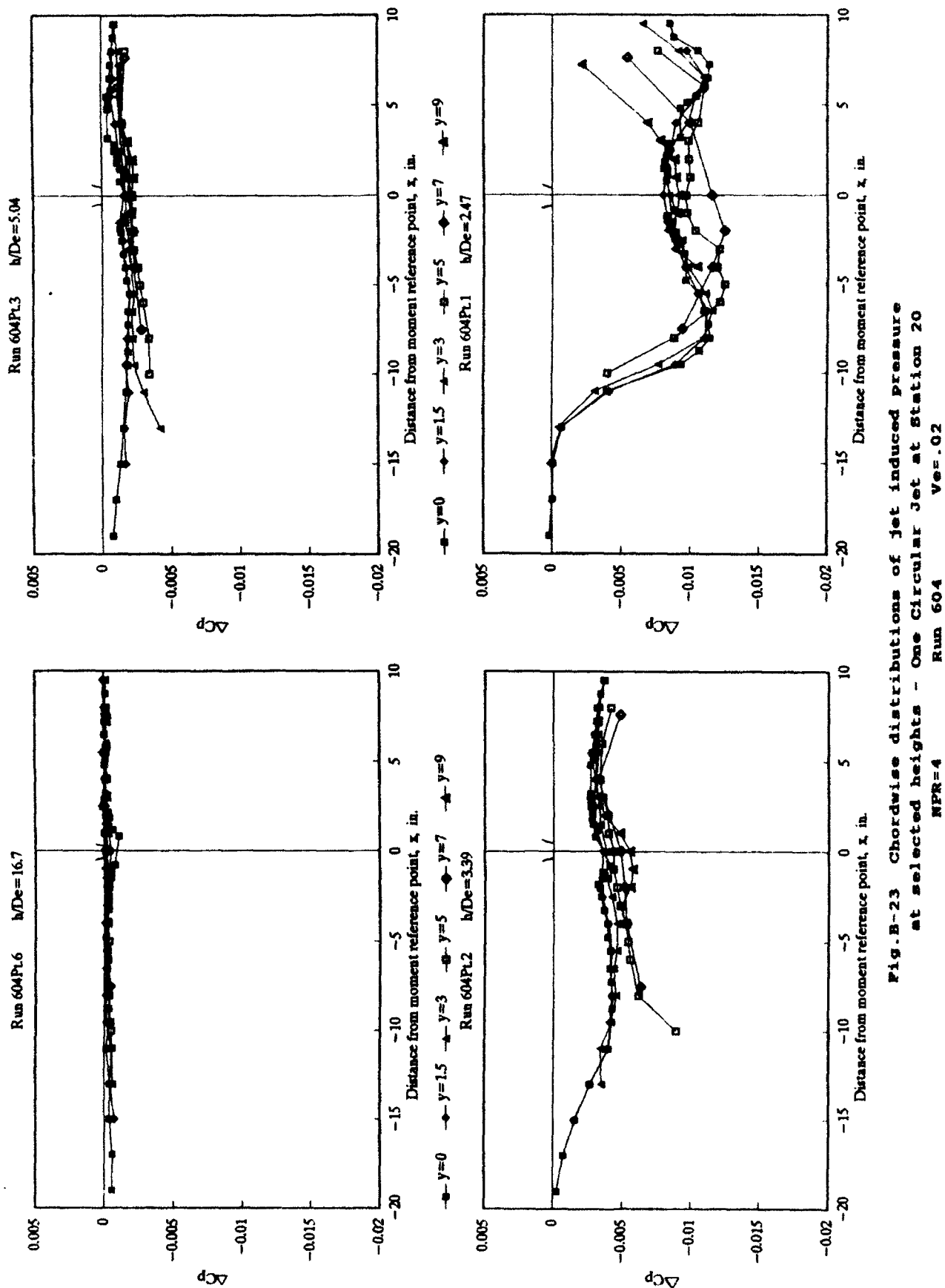


TABLE B-24 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - MPR=4

Run 605 Vex=0.4

Point N/D=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary

N/D=	34.81	18.73	12.57	8.41	6.01	3.36	2.56
Balance	dL/T =	-0.087	-0.13	-0.183	-0.235	-0.299	-0.348
Pressure	dL/T =	-0.0978	-0.1408	-0.1932	-0.256	-0.329	-0.394
Balance	dM/TD=	-0.203	-0.488	-0.777	-1.071	-1.343	-1.607
Pressure	dM/TD=	-0.1285	-0.4111	-0.6775	-0.906	-1.2279	-1.604

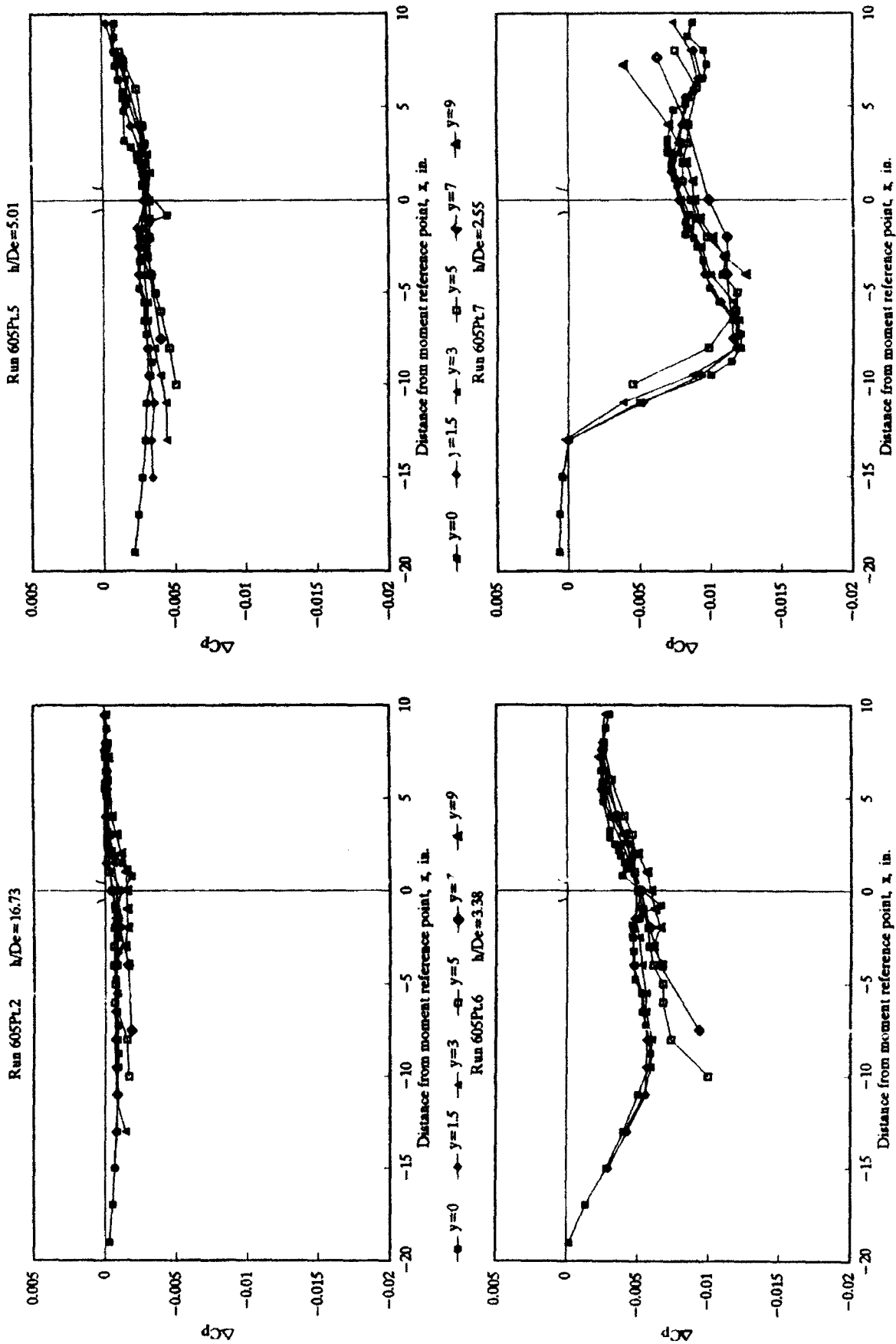


Fig. B-24 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20

NPR=4 Run 605 Ver.04

Rim 606  $Ve=.06$ 

Force and Moment Summary		
	$h/D_c =$	2.50
Balance	$d\bar{U} =$	-1.411
Pressure	$d\bar{U} =$	-1.476
Balance	$dM/DT_c =$	-0.0366
Pressure	$dM/DT_c =$	-0.0326

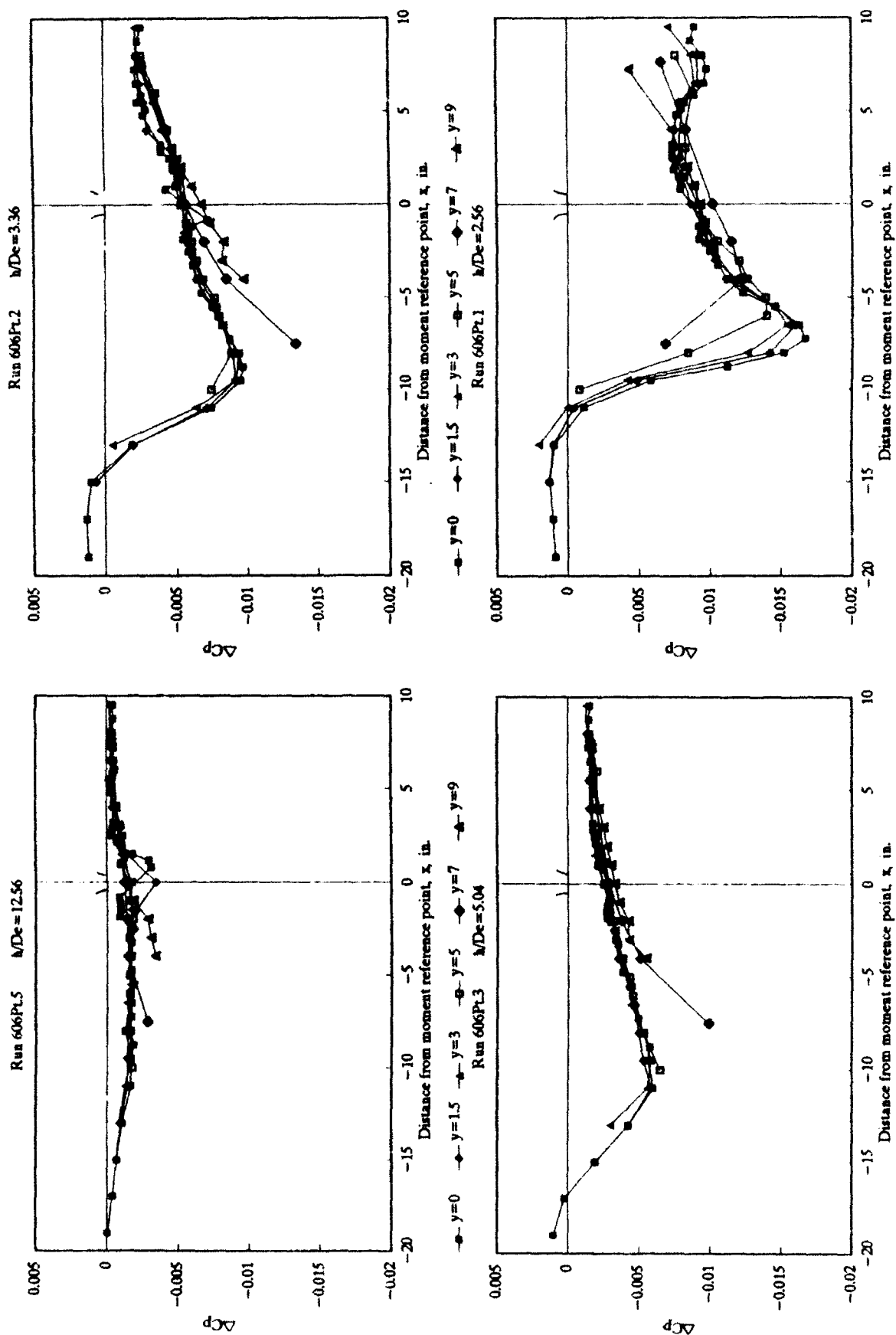


Fig.B-25 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
NFR=4 Run 606  $Ve=.06$

Run 607  $\nu_e = .08$ 

### Force and Moment Summary

[illegible]



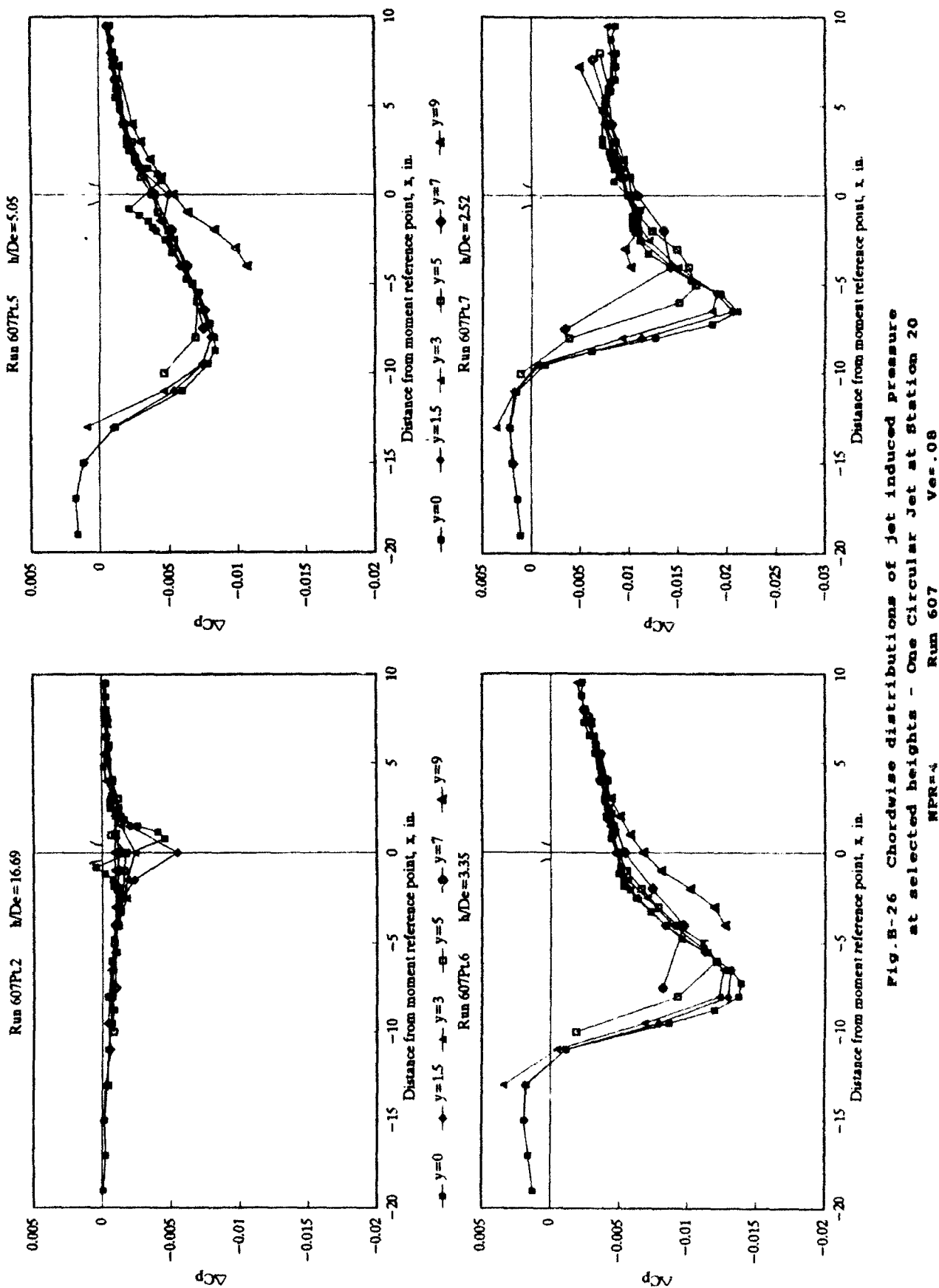


Fig. B-26 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20

TABLE B-27 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - NPR=4  
Run 608  $V_e=1$

Point	2	3	4	5	6	7	8
N/D <sub>e</sub> =	34.86	18.86	12.5	8.06	5.06	3.33	2.56
y	x	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$
0	-19	-0.0003	-0.0002	-0.0001	0.0017	0.0013	0.0014
0	-17	-0.0003	-0.0002	-0.0001	0.0022	0.0017	0.0019
0	-15	-0.0000	-0.0000	0.0001	0.0024	0.0025	0.0027
0	-13	-0.0002	-0.0001	0.0001	0.0013	0.0026	0.0030
0	-11	-0.0008	-0.0008	-0.0009	-0.0010	0.0012	-0.0019
0	-9	-0.0004	-0.0004	-0.0008	-0.0004	0.0024	0.0004
0	-8.75	-0.0004	-0.0008	-0.0007	-0.0000	0.0003	-0.0039
0	-8	-0.0008	-0.0008	-0.0007	-0.0002	0.0112	-0.0113
0	-7.25	-0.0004	-0.0008	-0.0008	-0.0006	-0.0181	-0.0189
0	-6.5	-0.0007	-0.0008	-0.0008	-0.0007	-0.0176	-0.0233
0	-5.8	-0.0008	-0.0009	-0.0010	-0.0002	-0.0170	-0.0216
0	-4.75	-0.0007	-0.0007	-0.0010	-0.0003	-0.0149	-0.0183
0	-4	-0.0008	-0.0009	-0.0012	-0.0007	-0.0129	-0.0156
0	-3.25	-0.0010	-0.0010	-0.0012	-0.0005	-0.0106	-0.0128
0	-2.5	-0.0010	-0.0010	-0.0013	-0.0004	-0.0087	-0.0107
0	-2.05	-0.0009	-0.0009	-0.0011	-0.0004	-0.0076	-0.0100
0	-1.85	-0.0004	-0.0005	-0.0005	-0.0001	-0.0048	-0.0091
0	-1.6	-0.0001	-0.0001	-0.0009	-0.0008	-0.0081	-0.0087
0	-1.15	0.0007	0.0007	0.0006	-0.0021	-0.0049	-0.0084
0	-0.6	0.0018	0.0016	0.0016	-0.0005	-0.0036	-0.0079
0	0.8	0.0083	0.0083	0.0107	-0.0072	-0.0081	-0.0078
0	1.15	-0.0078	-0.0084	-0.0090	-0.0085	-0.0087	-0.0082
0	1.5	-0.0081	-0.0085	-0.0088	-0.0046	-0.0049	-0.0062
0	1.85	-0.0033	-0.0035	-0.0040	-0.0040	-0.0043	-0.0080
0	2.15	-0.0039	-0.0039	-0.0034	-0.0039	-0.0040	-0.0078
0	2.5	-0.0019	-0.0023	-0.0028	-0.0028	-0.0036	-0.0076
0	2.85	0.0103	0.0105	0.0108	0.0112	0.0114	0.0112
0	3.2	-0.0009	-0.0010	-0.0011	-0.0010	-0.0013	-0.0025
0	4.8	-0.0018	-0.0012	-0.0019	-0.0021	-0.0027	-0.0048
0	8.15	-0.0014	-0.0012	-0.0018	-0.0017	-0.0027	-0.0084
0	8.5	-0.0011	-0.0012	-0.0019	-0.0014	-0.0028	-0.0081
0	8.85	-0.0013	-0.0011	-0.0018	-0.0015	-0.0024	-0.0087
0	8.5	-0.0013	-0.0012	-0.0019	-0.0014	-0.0024	-0.0084
0	7.25	-0.0013	-0.0012	-0.0017	-0.0012	-0.0022	-0.0083
0	6	-0.0011	-0.0010	-0.0014	-0.0008	-0.0017	-0.0081
0	8.75	-0.0010	-0.0009	-0.0013	-0.0008	-0.0016	-0.0081
0	8.5	-0.0008	-0.0007	-0.0012	-0.0004	-0.0011	-0.0085
0	8	-0.0011	-0.0012	-0.0016	-0.0018	-0.0022	-0.0082
0	4	0.0099	0.0101	0.0104	0.0107	0.0108	0.0110
1.5	-15	0.0001	0.0001	0.0002	0.0023	0.0024	0.0026
1.5	-13	-0.0003	-0.0002	0.0002	0.0010	0.0026	0.0030
1.5	-11	-0.0008	-0.0008	-0.0008	-0.0008	0.0018	0.0030
1.5	-9.5	-0.0008	-0.0004	-0.0005	-0.0006	-0.0018	0.0010
1.5	-8	-0.0008	-0.0004	-0.0005	-0.0007	-0.0102	-0.0084
1.5	-6.5	-0.0007	-0.0007	-0.0008	-0.0007	-0.0170	-0.0227
1.5	-5.5	-0.0008	-0.0007	-0.0009	-0.0002	-0.0170	-0.0217
1.5	-4	-0.0010	-0.0010	-0.0012	-0.0008	-0.0130	-0.0180
1.5	-2.5	-0.0014	-0.0014	-0.0016	-0.0002	-0.0083	-0.0113
1.5	-1.6	-0.0025	-0.0024	-0.0028	-0.0006	-0.0076	-0.0084
1.5	0	-0.0008	-0.0003	-0.0008	-0.0071	-0.0071	-0.0082
1.5	1.5	0.0030	0.0030	0.0036	0.0045	-0.0047	-0.0077
1.5	2.5	0.0030	0.0031	0.0038	0.0048	-0.0039	-0.0078
1.5	4	0.0008	0.0011	0.0012	-0.0011	-0.0013	-0.0025
1.5	5.5	0.0008	0.0010	0.0013	-0.0019	-0.0025	-0.0041
1.5	6.5	0.0008	0.0007	0.0012	-0.0012	-0.0023	-0.0046
1.5	8	0.0007	0.0007	0.0012	-0.0010	-0.0016	-0.0051
1.5	8.5	0.0005	0.0006	0.0008	-0.0008	-0.0008	-0.0018
1.5	9.5	0.0005	0.0006	0.0006	-0.0006	-0.0006	-0.0010
3	-13	-0.0007	-0.0007	-0.0006	0.0034	0.0042	0.0047
3	-11	-0.0002	-0.0001	-0.0003	-0.0017	0.0032	0.0031

Force and Moment Summary

N/D <sub>e</sub> =	34.86	18.86	12.5	8.06	5.06	3.33	2.56
Balance	$\Delta L/T =$	-0.211	-0.189	-0.210	-0.686	-1.250	-1.490
Pressure	$\Delta L/T =$	-0.202	-0.189	-0.248	-0.786	-1.042	-1.490
Balance	$\Delta M/TD_e =$	-0.186	-0.187	-0.043	-0.900	-0.856	-0.186
Pressure	$\Delta M/TD_e =$	-0.074	-0.032	0.058	-0.930	-0.778	-0.018

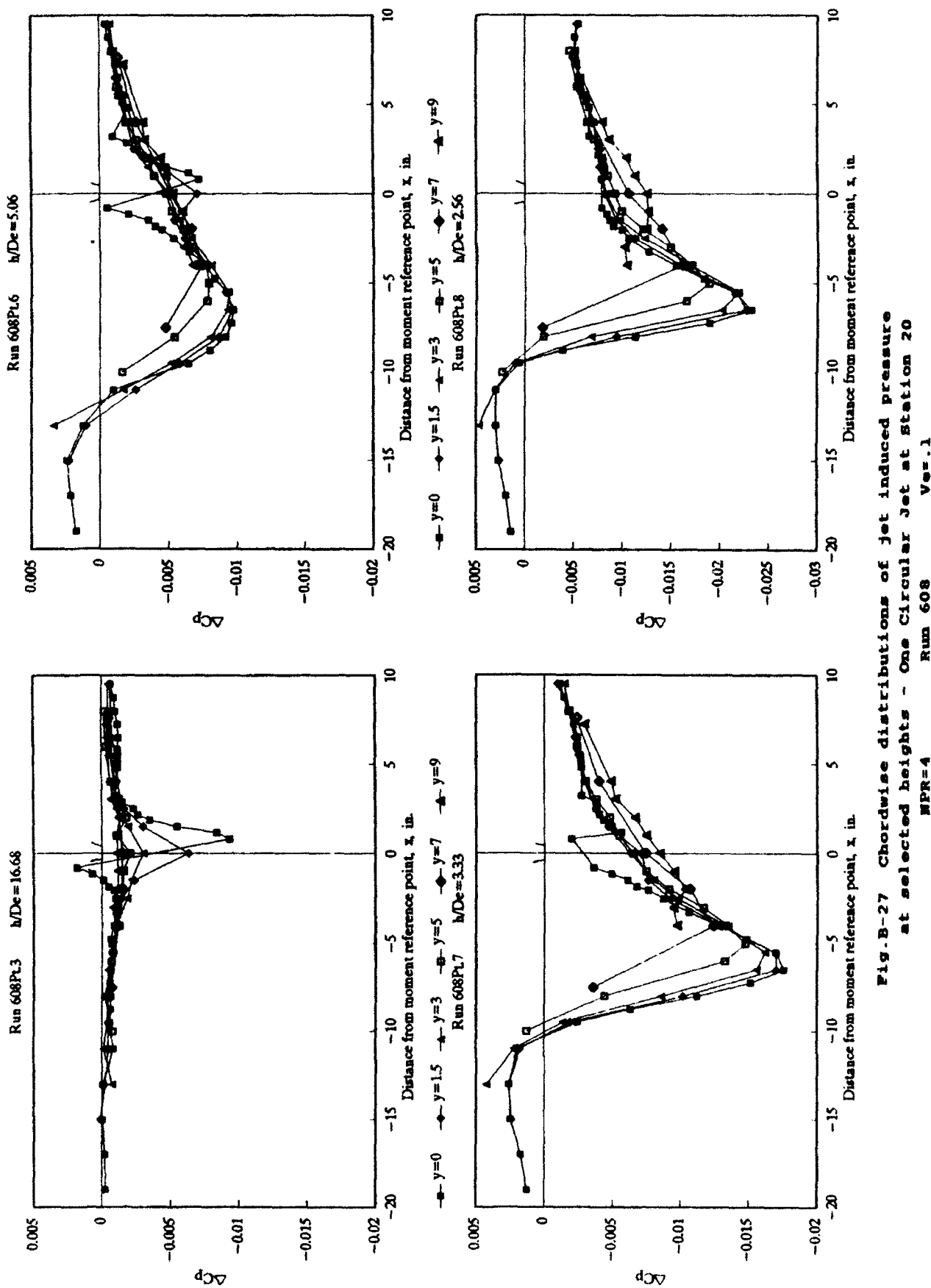


TABLE B-28 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - NPR=6  
Run 609 Ve=1

Point NO=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
NO=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
x	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
y	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
ΔCp	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
ΔCp	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

Force and Moment Summary  
h/D = 2.54  
Balance d/J = -1.082  
Pressure d/J = -1.344  
Balance dm/De = 0.730  
Pressure dm/De = 0.885

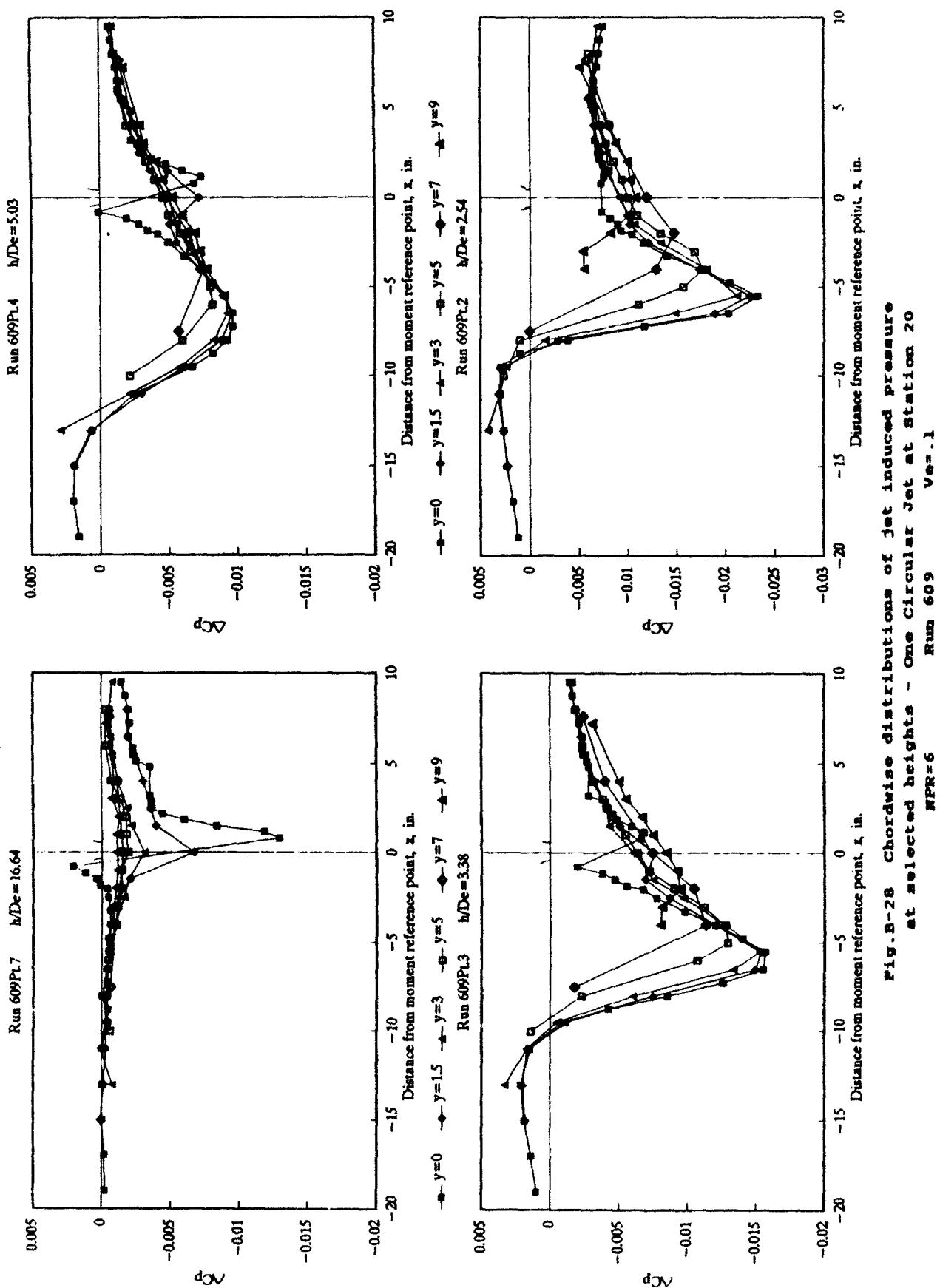


Fig. 8-28 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
MFR=6 Run 609  $Ve=.1$



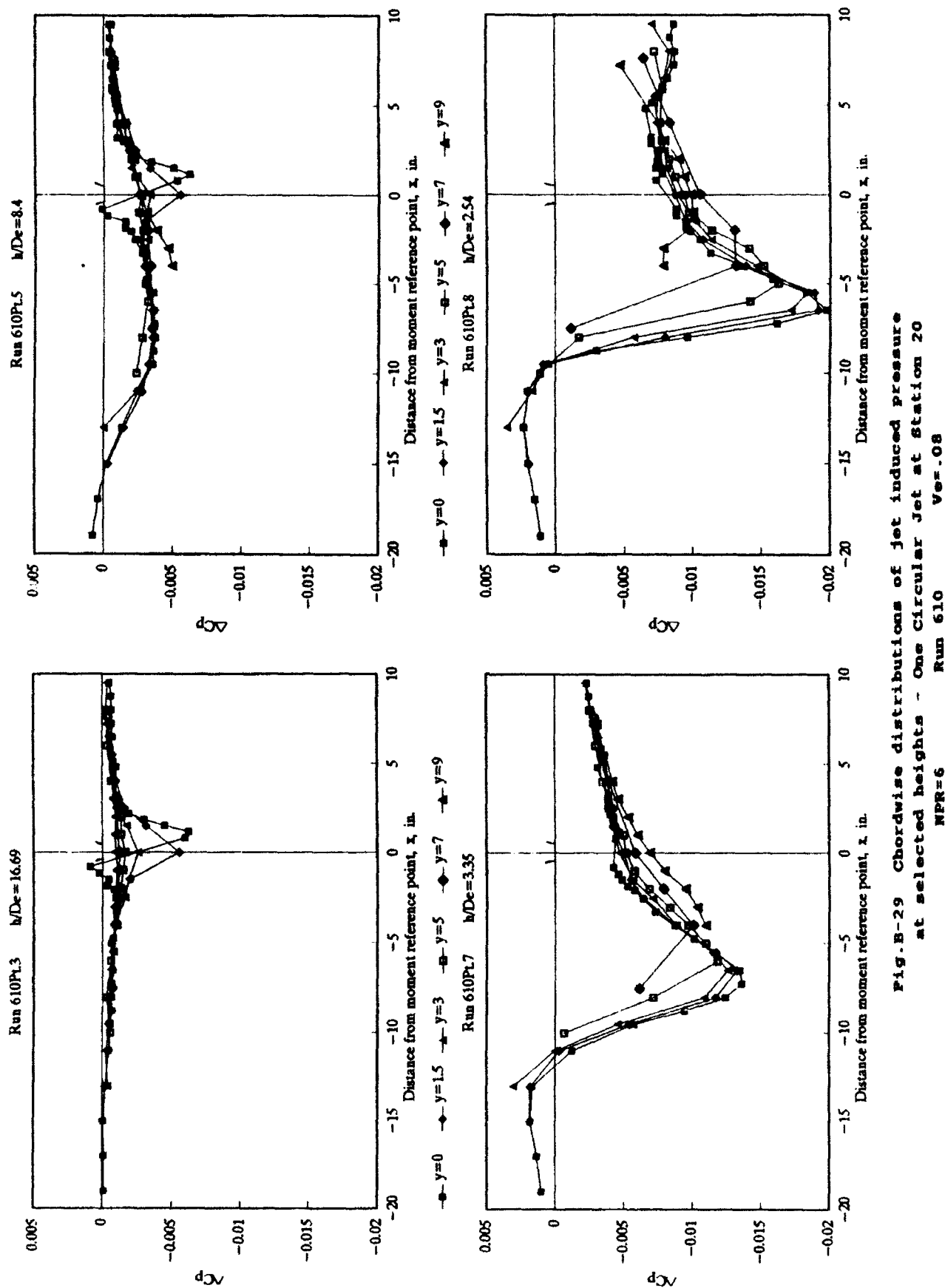


Fig.B-29 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
NPR=6 Run 610  $Ve=.08$

Run 611  
 $V_0 = .06$ 

## Executive Summary

34 27  
0.080  
0.080  
0.130  
0.122



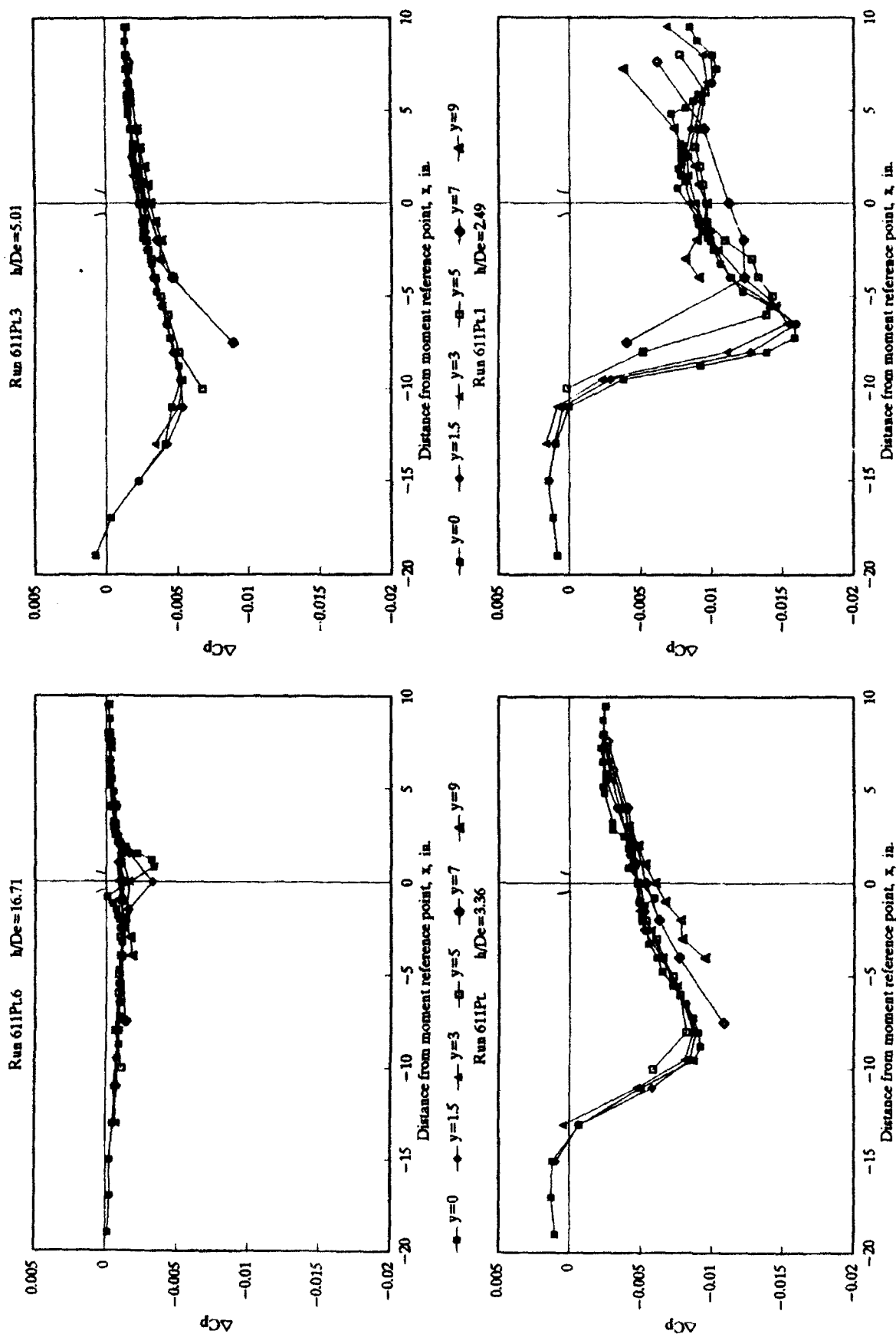


Fig.B-30 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
NPR=6 Run 611  $Ve=.06$

TABLE B-31 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - NPR=6  
Run 612  
Ve=0.4

Point N/D=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary  
N/D= 34.26  
Balance dL/T = -0.054  
Pressure dL/T = -0.054  
Balance dM/TDa = -0.160  
Pressure dM/TDa = -0.100

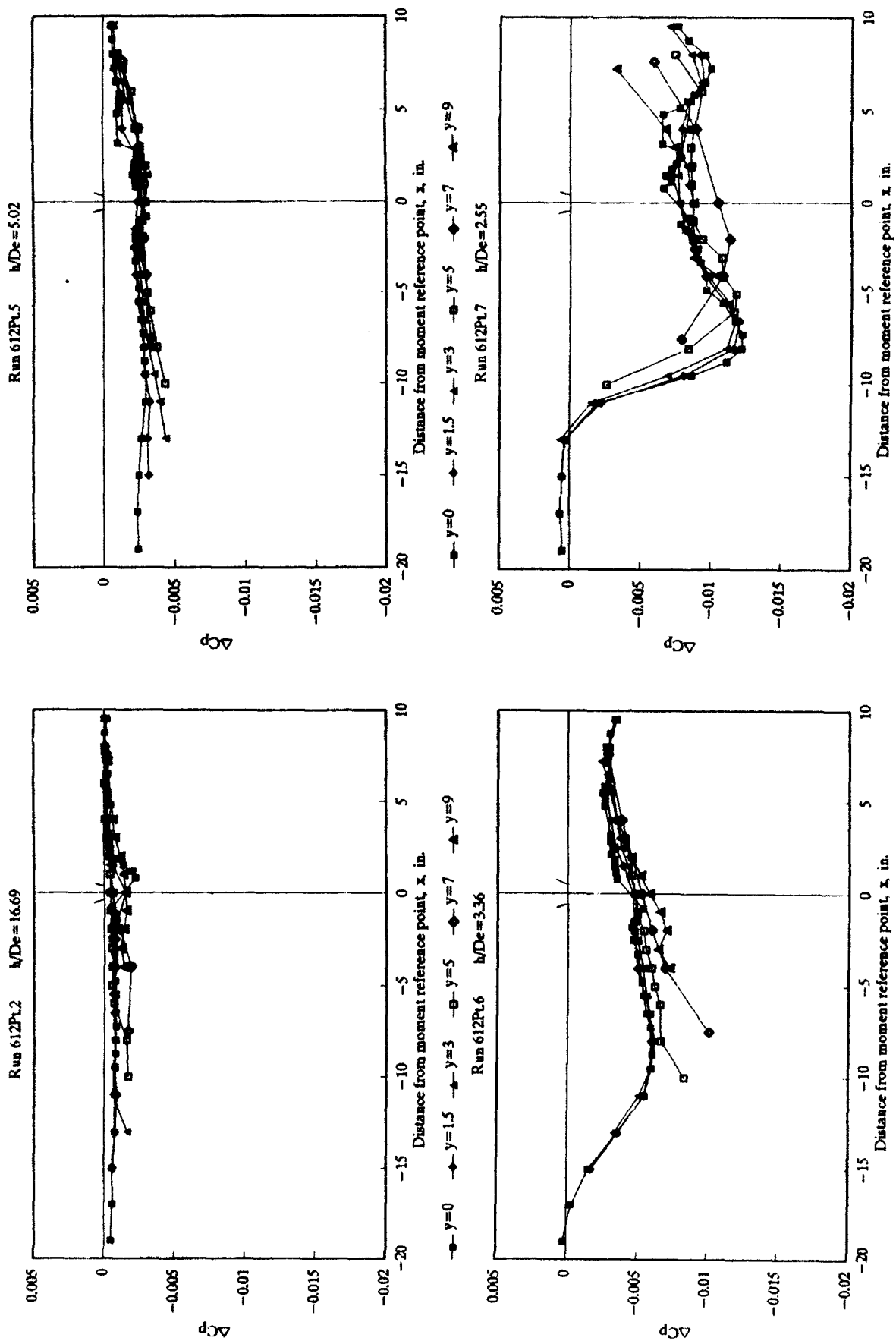


Fig.B-31 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 20  
NPR=6 Run 612  $Ve=.04$



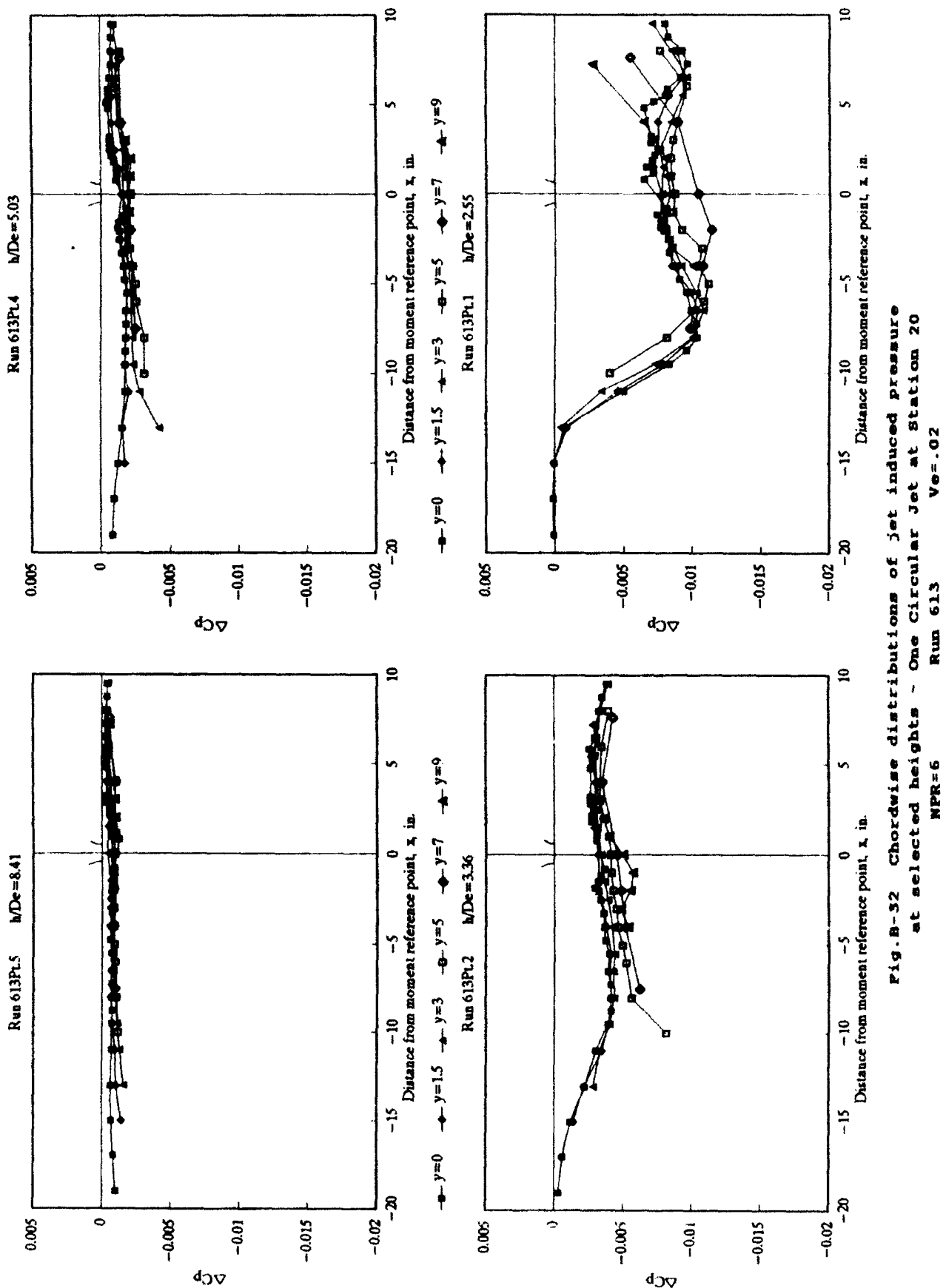


Fig. B-32 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20  
NPR=6 Run 613  $Ve=.02$

TABLE B-33 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 20 - MPR=6

Run 614									
V=0									
Y	Point N/D=	2		3		4		5	
		X	ΔCp	X	ΔCp	X	ΔCp	X	ΔCp
0	-19	-0.0000	-0.0002	-0.0004	-0.0004	-0.0004	-0.0004	-0.0007	-0.0001
0	-17	-0.0000	-0.0004	-0.0005	-0.0004	-0.0004	-0.0004	-0.0007	-0.0002
0	-16	-0.0001	-0.0009	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0001
0	-13	-0.0010	-0.0018	-0.0008	-0.0003	-0.0003	-0.0001	-0.0007	-0.0001
0	-11	-0.0003	-0.0002	-0.0001	-0.0001	-0.0001	-0.0001	-0.0008	-0.0000
0	-8.6	-0.0073	-0.0032	-0.0011	-0.0004	-0.0001	-0.0001	-0.0004	-0.0002
0	-8.76	-0.0081	-0.0034	-0.0012	-0.0004	-0.0001	-0.0001	-0.0004	-0.0001
0	-8	-0.0088	-0.0034	-0.0013	-0.0004	-0.0001	-0.0001	-0.0004	-0.0002
0	-7.25	-0.0097	-0.0033	-0.0013	-0.0005	-0.0001	-0.0001	-0.0004	-0.0001
0	-6.5	-0.0086	-0.0033	-0.0014	-0.0004	-0.0001	-0.0001	-0.0004	-0.0001
0	-5.5	-0.0077	-0.0034	-0.0012	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
0	-4.76	-0.0077	-0.0034	-0.0012	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
0	-4	-0.0078	-0.0033	-0.0008	-0.0004	-0.0001	-0.0001	-0.0008	-0.0001
0	-3.25	-0.0073	-0.0032	-0.0008	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
0	-2.5	-0.0072	-0.0030	-0.0007	-0.0005	-0.0001	-0.0001	-0.0008	-0.0002
0	-2.05	-0.0066	-0.0028	-0.0007	-0.0005	-0.0001	-0.0001	-0.0008	-0.0002
0	-1.85	-0.0071	-0.0028	-0.0008	-0.0005	-0.0001	-0.0001	-0.0008	-0.0002
0	-1.5	-0.0084	-0.0029	-0.0009	-0.0005	-0.0001	-0.0001	-0.0007	-0.0001
0	-1.15	-0.0084	-0.0028	-0.0011	-0.0009	-0.0001	-0.0001	-0.0007	-0.0001
0	-0.8	-0.0088	-0.0030	-0.0012	-0.0008	-0.0001	-0.0001	-0.0007	-0.0001
0	0.6	-0.0069	-0.0034	-0.0013	-0.0009	-0.0001	-0.0001	-0.0008	-0.0001
0	1.15	-0.0065	-0.0029	-0.0008	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
0	1.5	-0.0080	-0.0030	-0.0008	-0.0004	-0.0001	-0.0001	-0.0008	-0.0001
0	1.85	-0.0069	-0.0028	-0.0007	-0.0003	-0.0001	-0.0001	-0.0008	-0.0001
0	2.15	-0.0069	-0.0030	-0.0007	-0.0003	-0.0001	-0.0001	-0.0008	-0.0001
0	2.5	-0.0072	-0.0031	-0.0008	-0.0003	-0.0001	-0.0001	-0.0008	-0.0002
0	2.85	-0.0072	-0.0028	-0.0008	-0.0003	-0.0001	-0.0001	-0.0008	-0.0001
0	3.2	-0.0069	-0.0013	-0.0004	-0.0001	-0.0001	-0.0001	-0.0008	-0.0001
0	4.8	-0.0062	-0.0031	-0.0013	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
0	5.15	-0.0062	-0.0032	-0.0012	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
0	5.5	-0.0078	-0.0034	-0.0013	-0.0008	-0.0001	-0.0001	-0.0008	-0.0002
0	5.85	-0.0077	-0.0034	-0.0013	-0.0008	-0.0001	-0.0001	-0.0008	-0.0002
0	6.5	-0.0069	-0.0035	-0.0014	-0.0009	-0.0001	-0.0001	-0.0008	-0.0002
0	7.25	-0.0064	-0.0037	-0.0014	-0.0009	-0.0001	-0.0001	-0.0008	-0.0002
0	8	-0.0091	-0.0040	-0.0014	-0.0009	-0.0001	-0.0001	-0.0008	-0.0002
0	8.75	-0.0084	-0.0045	-0.0014	-0.0009	-0.0001	-0.0001	-0.0008	-0.0002
0	9.5	-0.0080	-0.0049	-0.0013	-0.0004	-0.0001	-0.0001	-0.0008	-0.0001
0.8	0	-0.0084	-0.0032	-0.0013	-0.0008	-0.0001	-0.0001	-0.0008	-0.0001
0.8	4	0.0019	0.0021	0.0021	0.0020	0.0020	0.0023	0.0020	0.0023
1.5	-15	-0.0001	-0.0010	-0.0012	-0.0008	-0.0001	-0.0001	-0.0007	-0.0001
1.5	-13	-0.0009	-0.0018	-0.0009	-0.0005	-0.0001	-0.0001	-0.0007	-0.0002
1.5	-11	-0.0037	-0.0030	-0.0011	-0.0008	-0.0001	-0.0001	-0.0007	-0.0002
1.5	-9	-0.0070	-0.0033	-0.0012	-0.0004	-0.0001	-0.0001	-0.0007	-0.0002
1.5	-8	-0.0086	-0.0034	-0.0013	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
1.5	-6.5	-0.0089	-0.0034	-0.0014	-0.0005	-0.0001	-0.0001	-0.0008	-0.0001
1.5	-5.5	-0.0083	-0.0037	-0.0015	-0.0005	-0.0001	-0.0001	-0.0008	-0.0002
1.5	-4	-0.0078	-0.0035	-0.0010	-0.0005	-0.0001	-0.0001	-0.0007	-0.0002
1.5	-2.5	-0.0072	-0.0031	-0.0009	-0.0005	-0.0001	-0.0001	-0.0007	-0.0002
1.5	-1.8	-0.0067	-0.0028	-0.0008	-0.0005	-0.0001	-0.0001	-0.0007	-0.0002
1.5	0	-0.0067	-0.0028	-0.0010	-0.0005	-0.0001	-0.0001	-0.0007	-0.0002
1.5	1.5	-0.0063	-0.0029	-0.0009	-0.0005	-0.0001	-0.0001	-0.0007	-0.0001
1.5	2.5	-0.0073	-0.0030	-0.0009	-0.0004	-0.0001	-0.0001	-0.0007	-0.0001
1.5	4	-0.0063	-0.0032	-0.0001	-0.0001	-0.0001	-0.0001	-0.0007	-0.0001
1.5	5.5	-0.0074	-0.0034	-0.0015	-0.0005	-0.0001	-0.0001	-0.0007	-0.0001
1.5	6.5	-0.0080	-0.0036	-0.0015	-0.0005	-0.0001	-0.0001	-0.0007	-0.0001
1.5	8	-0.0087	-0.0040	-0.0015	-0.0005	-0.0001	-0.0001	-0.0007	-0.0001
1.5	9.5	-0.0081	-0.0040	-0.0000	-0.0000	-0.0000	-0.0000	-0.0007	-0.0001
3	-13	-0.0007	-0.0024	-0.0029	-0.0009	-0.0009	-0.0009	-0.0007	-0.0002
3	-11	-0.0031	-0.0027	-0.0025	-0.0008	-0.0008	-0.0008	-0.0008	-0.0002

Force and Moment Summary

N/D=	2.47	3.36	4.96	8.34	16.88
Balance dL/T =	-1.354	-0.717	-0.303	-0.118	-0.030
Pressure dL/T =	-1.272	-0.707	-0.295	-0.118	-0.028
Balance dM/TDe =	-0.280	-0.330	-0.220	-0.130	-0.040
Pressure dM/TDe =	-0.400	-0.364	-0.241	-0.123	-0.030

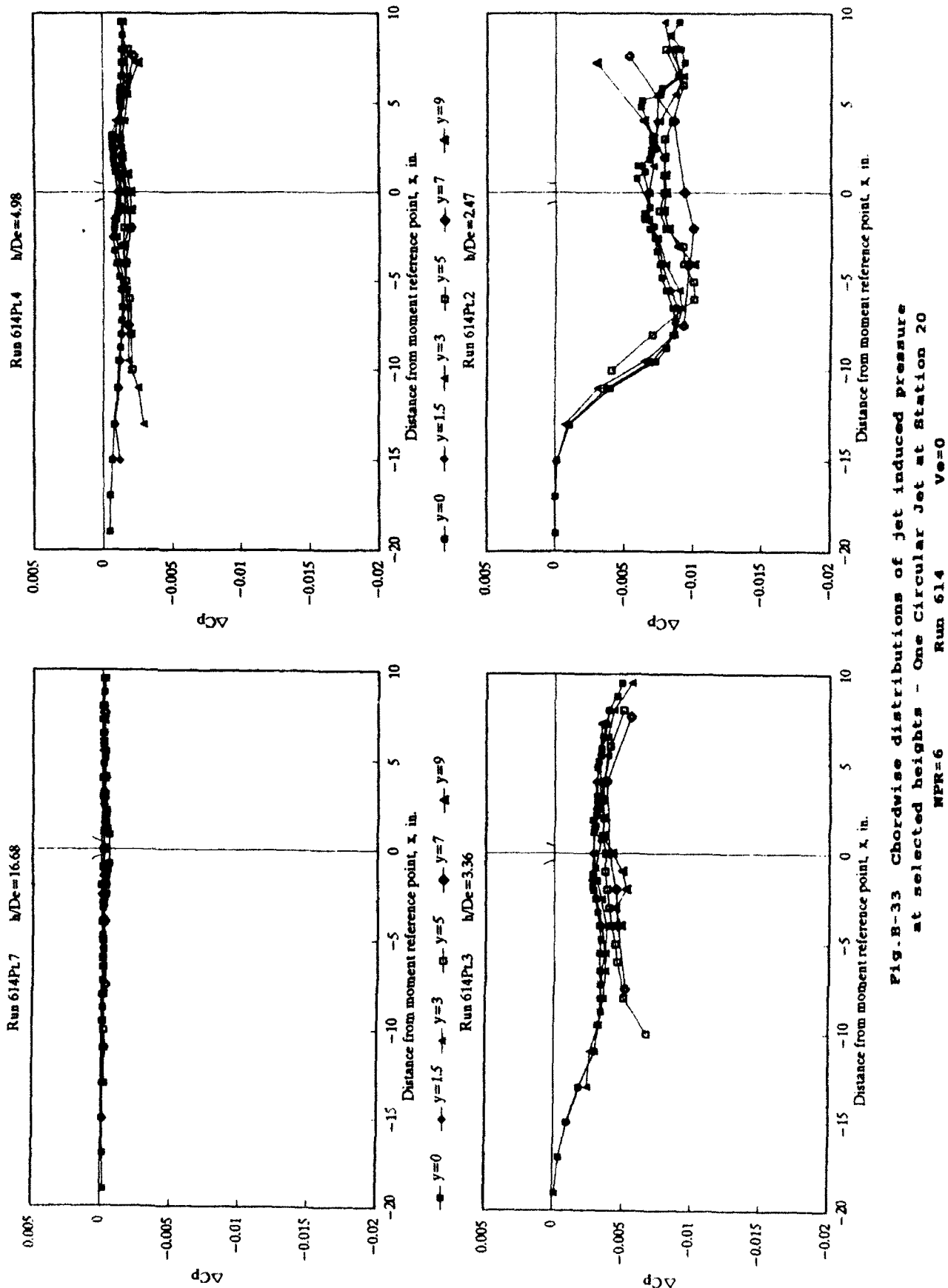


Fig. B-33 Chordwise distributions of jet induced pressure at selected heights - One Circular Jet at Station 20

Run 614  $WPR=6$   $Ve=0$

TABLE B-34 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=2  
Run 540  $V_e=0$

Point N/O =	y	x	2		3		4		5		6		7		8	
			ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-17	0.0001	0.0000	-0.0004	-0.0005	-0.0008	-0.0010	-0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0	-18	0.0000	-0.0001	-0.0004	-0.0007	-0.0010	-0.0017	-0.0020	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027
0	-13	0.0001	0.0002	-0.0004	-0.0013	-0.0013	-0.0028	-0.0036	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046
0	-11	0.0000	-0.0002	-0.0004	-0.0007	-0.0012	-0.0028	-0.0040	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116
0	-9	0.0000	-0.0000	0.0001	-0.0000	-0.0002	-0.0002	-0.0005	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007
0	-7.88	0.0003	-0.0002	-0.0003	-0.0004	-0.0012	-0.0046	-0.0067	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106
0	-7.8	-0.0001	-0.0008	-0.0008	-0.0008	-0.0019	-0.0080	-0.0085	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106
0	-7.18	-0.0004	-0.0007	-0.0009	-0.0010	-0.0016	-0.0041	-0.0061	-0.0080	-0.0080	-0.0080	-0.0080	-0.0080	-0.0080	-0.0080	-0.0080
0	-6.8	-0.0011	-0.0018	-0.0014	-0.0012	-0.0017	-0.0030	-0.0051	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106
0	-6.2	-0.0008	-0.0009	-0.0013	-0.0011	-0.0021	-0.0045	-0.0106	-0.0161	-0.0161	-0.0161	-0.0161	-0.0161	-0.0161	-0.0161	-0.0161
0	-4.85	-0.0009	-0.0013	-0.0017	-0.0022	-0.0048	-0.0065	-0.0117	-0.0165	-0.0165	-0.0165	-0.0165	-0.0165	-0.0165	-0.0165	-0.0165
0	-4.6	-0.0004	-0.0013	-0.0013	-0.0023	-0.0048	-0.0065	-0.0126	-0.0166	-0.0166	-0.0166	-0.0166	-0.0166	-0.0166	-0.0166	-0.0166
0	-4.16	-0.0004	-0.0005	-0.0010	-0.0026	-0.0070	-0.0089	-0.0140	-0.0243	-0.0243	-0.0243	-0.0243	-0.0243	-0.0243	-0.0243	-0.0243
0	-3.5	-0.0002	-0.0003	-0.0014	-0.0027	-0.0073	-0.0126	-0.0200	-0.0315	-0.0315	-0.0315	-0.0315	-0.0315	-0.0315	-0.0315	-0.0315
0	-2.75	-0.0001	-0.0001	-0.0011	-0.0025	-0.0063	-0.0142	-0.0236	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362
0	-2	0.0003	0.0004	-0.0004	-0.0012	-0.0031	-0.0110	-0.0225	-0.0405	-0.0405	-0.0405	-0.0405	-0.0405	-0.0405	-0.0405	-0.0405
0	-1.28	0.0002	0.0004	-0.0000	-0.0003	0.0018	-0.0024	-0.0132	-0.0341	-0.0341	-0.0341	-0.0341	-0.0341	-0.0341	-0.0341	-0.0341
0	-0.6	0.0001	0.0003	0.0005	0.0012	0.0072	0.0123	0.0073	0.0073	0.0073	0.0073	0.0073	0.0073	0.0073	0.0073	0.0073
0	-0.06	0.0003	0.0004	0.0005	0.0023	0.0084	0.0148	0.0177	0.0144	0.0144	0.0144	0.0144	0.0144	0.0144	0.0144	0.0144
0	0.6	0.0003	0.0004	0.0006	0.0030	0.0066	0.0113	0.0121	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046
0	1.25	0.0002	0.0004	0.0012	0.0033	0.0043	0.0028	-0.0110	-0.0337	-0.0337	-0.0337	-0.0337	-0.0337	-0.0337	-0.0337	-0.0337
0	2	0.0002	0.0004	0.0010	0.0018	0.0027	-0.0163	-0.0287	-0.0462	-0.0462	-0.0462	-0.0462	-0.0462	-0.0462	-0.0462	-0.0462
0	2.75	0.0002	0.0000	0.0010	0.0002	0.0090	-0.0214	-0.0326	-0.0417	-0.0417	-0.0417	-0.0417	-0.0417	-0.0417	-0.0417	-0.0417
0	3.5	0.0001	0.0004	0.0004	-0.0014	-0.0106	-0.0220	-0.0368	-0.0378	-0.0378	-0.0378	-0.0378	-0.0378	-0.0378	-0.0378	-0.0378
0	4.15	0.0001	-0.0004	0.0001	-0.0025	-0.0106	-0.0182	-0.0163	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230
0	4.5	0.0001	-0.0005	0.0000	-0.0028	-0.0066	-0.0144	-0.0182	-0.0219	-0.0219	-0.0219	-0.0219	-0.0219	-0.0219	-0.0219	-0.0219
0	4.85	0.0000	-0.0004	-0.0001	-0.0019	-0.0066	-0.0086	-0.0136	-0.0196	-0.0196	-0.0196	-0.0196	-0.0196	-0.0196	-0.0196	-0.0196
0	5.2	-0.0003	-0.0008	-0.0001	-0.0003	-0.0035	-0.0064	-0.0084	-0.0163	-0.0163	-0.0163	-0.0163	-0.0163	-0.0163	-0.0163	-0.0163
0	6.8	-0.0008	-0.0015	-0.0020	-0.0063	-0.0066	-0.0044	-0.0081	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106
0	7.15	0.0000	-0.0003	-0.0008	-0.0037	-0.0061	-0.0090	-0.0063	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106	-0.0106
0	7.8	-0.0000	-0.0003	-0.0012	-0.0036	-0.0040	-0.0068	-0.0062	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116
0	7.85	0.0002	-0.0002	-0.0011	-0.0033	-0.0032	-0.0087	-0.0065	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115
0	8.5	0.0003	-0.0003	-0.0011	-0.0024	-0.0031	-0.0069	-0.0048	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126
0	9.25	0.0000	-0.0004	-0.0012	-0.0027	-0.0028	-0.0044	-0.0044	-0.0143	-0.0143	-0.0143	-0.0143	-0.0143	-0.0143	-0.0143	-0.0143
0	10	0.0002	-0.0001	-0.0007	-0.0018	-0.0024	-0.0025	-0.0040	-0.0156	-0.0156	-0.0156	-0.0156	-0.0156	-0.0156	-0.0156	-0.0156
0	10.75	0.0001	-0.0002	-0.0008	-0.0013	-0.0026	-0.0019	-0.0041	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175
0	11.5	0.0004	-0.0002	-0.0006	-0.0017	-0.0026	-0.0014	-0.0036	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200
0	-6	-0.0009	-0.0021	-0.0023	-0.0050	-0.0027	-0.0087	-0.0148	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131
0	-8	-0.0007	-0.0027	-0.0043	-0.0160	-0.0235	-0.0066	-0.0162	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186
0	-13	-0.0001	-0.0003	-0.0010	-0.0018	-0.0036	-0.0048	-0.0047	-0.0063	-0.0063	-0.0063	-0.0063	-0.0063	-0.0063	-0.0063	-0.0063
0	-11	-0.0001	-0.0006	-0.0008	-0.0012	-0.0025	-0.0040	-0.0066	-0.0147	-0.0147	-0.0147	-0.0147	-0.0147	-0.0147	-0.0147	-0.0147
0	-9	-0.0004	-0.0007	-0.0010	-0.0020	-0.0050	-0.0064	-0.0085	-0.0142	-0.0142	-0.0142	-0.0142	-0.0142	-0.0142	-0.0142	-0.0142
0	-7.5	0.0002	-0.0003	-0.0002	-0.0007	-0.0017	-0.0054	-0.0068	-0.0120	-0.0120	-0.0120	-0.0120	-0.0120	-0.0120	-0.0120	-0.0120
0	-6	-0.0001	-0.0007	-0.0009	-0.0011	-0.0018	-0.0062	-0.0116	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136
0	-4.5	-0.0000	-0.0003	-0.0010	-0.0023	-0.0067	-0.0048	-0.0126	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212
0	-3.5	-0.0001	-0.0003	-0.0013	-0.0024	-0.0024	-0.0078	-0.0122	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167
0	-2	0.0002	-0.0002	-0.0004	-0.0014	-0.0026	-0.0036	-0.0119	-0.0228	-0.0228	-0.0228	-0.0228	-0.0228	-0.0228	-0.0228	-0.0228
0	-0.6	0.0003	0.0004	0.0005	0.0019	0.0047	0.0066	0.0089	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087
0	0.6	0.0003	0.0004	0.0005	0.0030	0.0076	0.0110	0.0126	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087
0	2	0.0004	0.0003	0.0008	0.0019	-0.0016	-0.0016	-0.0135	-0.0270	-0.0270	-0.0270	-0.0270	-0.0270	-0.0270	-0.0270	-0.0270
0	3.5	0.0004	-0.0001	0.0005	-0.0012	-0.0104	-0.0011	-0.0068	-0.0300	-0.0300	-0.0300	-0.0300	-0.0300	-0.0300	-0.0300	-0.0300
0	4.9	0.0000	-0.0006	-0.0006	-0.0034	-0.0116	-0.0181	-0.0173	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230	-0.0230
0	5	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
0	5.5	0.0003	0.0004	0.0005	0.0019	0.0047	0.0066	0.0089	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087
0	6	0.0003	0.0004	0.0005	0.0030	0.0076	0.0110	0.0126	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087
0	6.8	0.0001	-0.0003	-0.0008	-0.0018	-0.0016	-0.0062	-0.0116	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136	-0.0136
0	7.5	0.0000	-0.0003	-0.0010	-0.0023	-0.0067	-0.0048	-0.0126	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212	-0.0212
0	8	-0.0001	-0.0003	-0.0013	-0.0024	-0.0024	-0.0078	-0.0122	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167	-0.0167
0	8.5	-0.0002	-0.0002	-0.0008	-0.0013	-0.0026	-0.0019	-0.0041	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175
0	9	-0.0001	-0.0002	-0.0006	-0.0017	-0.0026	-0.0014	-0.0036	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200
0	9.5	0.0000	-0.0003	-0.0011	-0.0033	-0.0032	-0.0087	-0.0065	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115	-0.0115
0	10	0.0003	-0.0003	-0.0011	-0.0024	-0.0031	-0.0069	-0.0048	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126	-0.0126
0	10.75	0.0001	-0.0002	-0.0008	-0.0013	-0.0026	-0.0019	-0.0041	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175	-0.0175
0	11.5	0.0004	-0.0002	-0.0006	-0.0017	-0.0026	-0.0014	-0.0036	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200	-0.0200
0	-6	-0.0009	-0.0021	-0.0023	-0.0050	-0.0027	-0.0087	-0.0148	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131	-0.0131
0	-8	-0.0007	-0.0027	-0.0043	-0.0160	-0.0235	-0.0066	-0.0162	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186	-0.0186
0	-13	-0.0001	-0.0003	-0.0010	-0.0018	-0.0036	-0.0048	-0.0047	-0.006							

### Keywords and Abstract Summary

100 - 2000

Pressure = -0.00

Balance	dM/T D <sub>0</sub> =	0.02
0.02		

Pressure dASTO<sub>0.1</sub> - 0.00

**Abstract**

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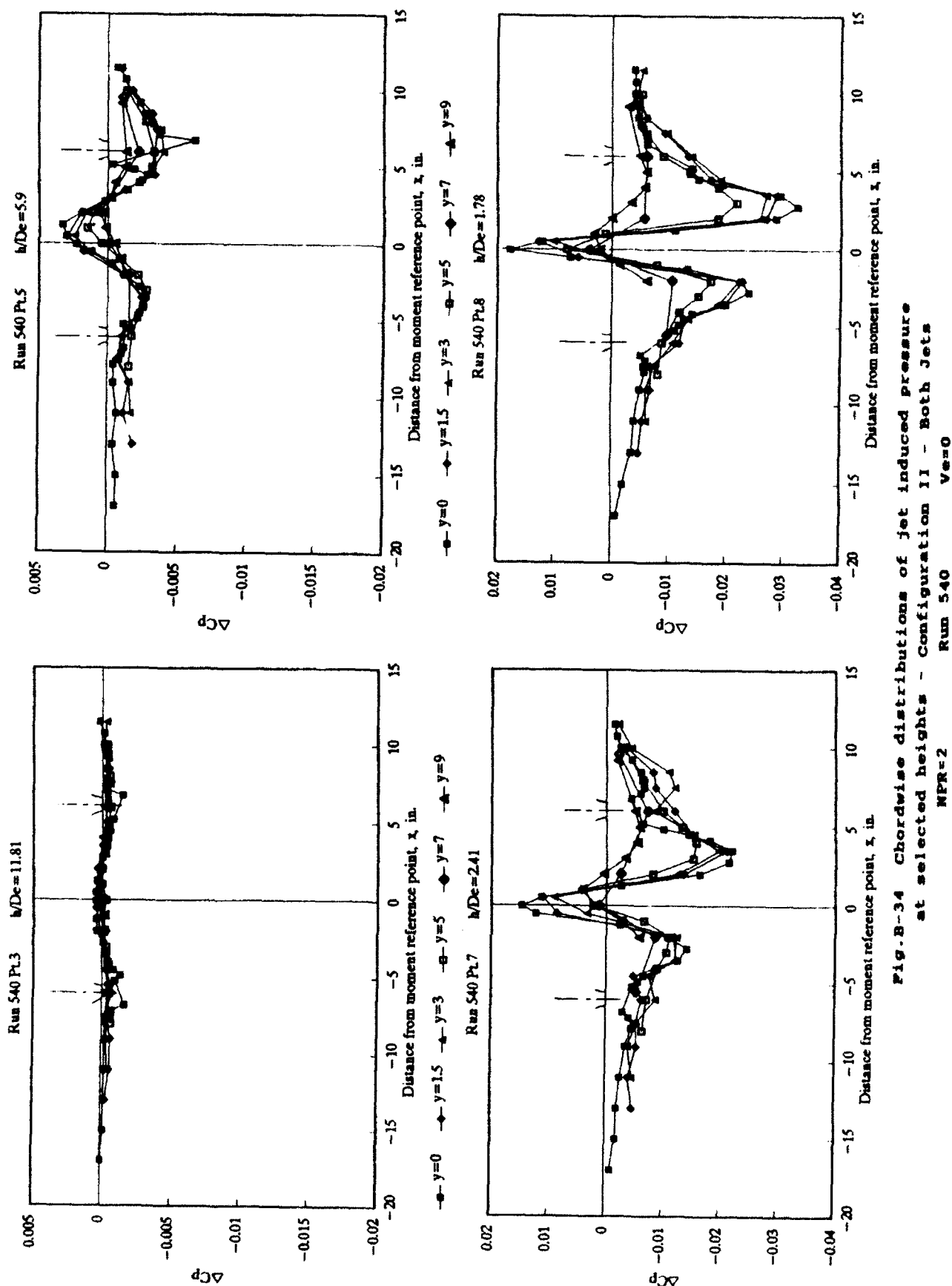


Fig.B-34 Chordwise distributions of jet induced pressure  
at selected heights - Configuration 11 - Both Jets

NPR-2 Run 540  $Ve=0$

TABLE B-35 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=2  
Run 546 Ve=0.8

Point N/D=	2	3	4	5	6	7	8	9
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-17	-0.0006	-0.0004	-0.0004	-0.0003	-0.0025	-0.0031	-0.0018
0	-16	-0.0008	-0.0006	-0.0008	-0.0018	-0.0073	-0.0107	-0.0104
0	-15	-0.0008	-0.0008	-0.0008	-0.0012	-0.0008	-0.0012	-0.0022
0	-13	-0.0012	-0.0012	-0.0016	-0.0034	-0.0072	-0.0100	-0.0130
0	-9	-0.0008	-0.0011	-0.0012	-0.0011	-0.0010	-0.0014	-0.0021
0	-7.86	-0.0019	-0.0020	-0.0022	-0.0032	-0.0040	-0.0071	-0.0103
0	-7.8	-0.0080	-0.0080	-0.0084	-0.0084	-0.0043	-0.0071	-0.0104
0	-7.18	-0.0013	-0.0014	-0.0017	-0.0030	-0.0030	-0.0049	-0.0069
0	-8.8	-0.0008	-0.0008	-0.0008	-0.0011	-0.0017	-0.0070	-0.0111
0	-8.2	-0.0104	-0.0102	-0.0105	-0.0089	-0.0087	-0.0081	-0.0104
0	-4.85	-0.0084	-0.0081	-0.0088	-0.0072	-0.0060	-0.0076	-0.0128
0	-4.5	-0.0043	-0.0041	-0.0045	-0.0038	-0.0038	-0.0074	-0.0138
0	-4.15	-0.0034	-0.0034	-0.0037	-0.0034	-0.0018	-0.0078	-0.0160
0	-3.5	-0.0028	-0.0028	-0.0031	-0.0023	-0.0020	-0.0091	-0.0188
0	-2.75	-0.0018	-0.0023	-0.0025	-0.0014	-0.0010	-0.0087	-0.0171
0	-2	-0.0021	-0.0027	-0.0030	-0.0019	-0.0013	-0.0090	-0.0170
0	-1.25	-0.0023	-0.0028	-0.0031	-0.0018	-0.0014	-0.0086	-0.0170
0	-0.8	-0.0025	-0.0033	-0.0039	-0.0019	-0.0013	-0.0082	-0.0163
0	-0.46	-0.0028	-0.0027	-0.0028	-0.0020	-0.0012	-0.0082	-0.0160
0	0.5	-0.0027	-0.0031	-0.0030	-0.0023	-0.0019	-0.0084	-0.0162
0	1.25	-0.0033	-0.0036	-0.0034	-0.0027	-0.0028	-0.0048	-0.0177
0	2	-0.0033	-0.0034	-0.0033	-0.0026	-0.0026	-0.0048	-0.0180
0	2.75	-0.0037	-0.0036	-0.0036	-0.0032	-0.0043	-0.0037	-0.0188
0	3.5	-0.0038	-0.0038	-0.0041	-0.0035	-0.0042	-0.0039	-0.0191
0	4.15	-0.0039	-0.0038	-0.0041	-0.0031	-0.0037	-0.0041	-0.0197
0	4.5	-0.0038	-0.0037	-0.0038	-0.0027	-0.0032	-0.0048	-0.0200
0	4.85	-0.0036	-0.0040	-0.0041	-0.0034	-0.0049	-0.0076	-0.0211
0	4.96	-0.0018	-0.0023	-0.0025	-0.0021	-0.0041	-0.0087	-0.0217
0	5.2	-0.0029	-0.0037	-0.0046	-0.0021	-0.0013	-0.0082	-0.0213
0	5.8	-0.0031	-0.0043	-0.0049	-0.0018	-0.0009	-0.0089	-0.0212
0	7.15	-0.0037	-0.0040	-0.0042	-0.0043	-0.0063	-0.0085	-0.0205
0	7.5	-0.0034	-0.0038	-0.0039	-0.0038	-0.0049	-0.0078	-0.0211
0	7.86	-0.0018	-0.0023	-0.0025	-0.0021	-0.0041	-0.0087	-0.0217
0	8.5	-0.0015	-0.0017	-0.0019	-0.0015	-0.0029	-0.0058	-0.0218
0	9.25	-0.0011	-0.0013	-0.0015	-0.0012	-0.0021	-0.0049	-0.0221
0	10	-0.0010	-0.0014	-0.0016	-0.0014	-0.0021	-0.0044	-0.0221
0	10.75	-0.0010	-0.0014	-0.0017	-0.0015	-0.0020	-0.0038	-0.0220
0	11.5	-0.0007	-0.0012	-0.0015	-0.0013	-0.0017	-0.0031	-0.0221
0.5	-6	-0.0048	-0.0047	-0.0049	-0.0044	-0.0049	-0.0048	-0.0048
0.5	-4	-0.0048	-0.0047	-0.0049	-0.0044	-0.0049	-0.0048	-0.0048
1.5	-13	-0.0008	-0.0010	-0.0014	-0.0004	-0.0003	-0.0032	-0.0053
1.5	-11	-0.0018	-0.0018	-0.0018	-0.0041	-0.0081	-0.0113	-0.0143
1.5	-9	-0.0022	-0.0023	-0.0027	-0.0042	-0.0084	-0.0087	-0.0120
1.5	-7.5	-0.0034	-0.0034	-0.0038	-0.0045	-0.0063	-0.0072	-0.0109
1.5	-6	-0.0080	-0.0082	-0.0088	-0.0081	-0.0082	-0.0070	-0.0112
1.5	-4.5	-0.0037	-0.0038	-0.0041	-0.0034	-0.0029	-0.0044	-0.0058
1.5	-3.5	-0.0024	-0.0028	-0.0030	-0.0029	-0.0021	-0.0040	-0.0051
1.5	-2	-0.0015	-0.0018	-0.0019	-0.0011	-0.0012	-0.0031	-0.0041
1.5	-0.5	-0.0019	-0.0025	-0.0028	-0.0017	-0.0017	-0.0014	-0.0038
1.5	0.5	-0.0018	-0.0019	-0.0018	-0.0012	-0.0013	-0.0034	-0.0053
1.5	2	-0.0020	-0.0020	-0.0022	-0.0017	-0.0031	-0.0146	-0.0118
1.5	3.5	-0.0028	-0.0028	-0.0031	-0.0028	-0.0045	-0.0083	-0.0173
1.5	4.5	-0.0033	-0.0037	-0.0038	-0.0038	-0.0049	-0.0086	-0.0210
1.5	5.5	-0.0031	-0.0033	-0.0033	-0.0031	-0.0045	-0.0086	-0.0213
1.5	7.5	-0.0031	-0.0033	-0.0033	-0.0031	-0.0045	-0.0086	-0.0213
1.5	8.5	-0.0031	-0.0033	-0.0033	-0.0031	-0.0045	-0.0086	-0.0213
1.5	10	-0.0031	-0.0033	-0.0033	-0.0031	-0.0045	-0.0086	-0.0213
1.5	11.5	-0.0031	-0.0033	-0.0033	-0.0031	-0.0045	-0.0086	-0.0213
1.5	13	-0.0031	-0.0033	-0.0033	-0.0031	-0.0045	-0.0086	-0.0213
3	-9	-0.0022	-0.0024	-0.0027	-0.0040	-0.0071	-0.0108	-0.0142

Force and Moment Summary  
N/D= 20.1  
Balance dL/T = -0.171  
Pressure dL/T = -0.193  
Balance dM/TD= -0.042  
Pressure dM/TD= -0.070

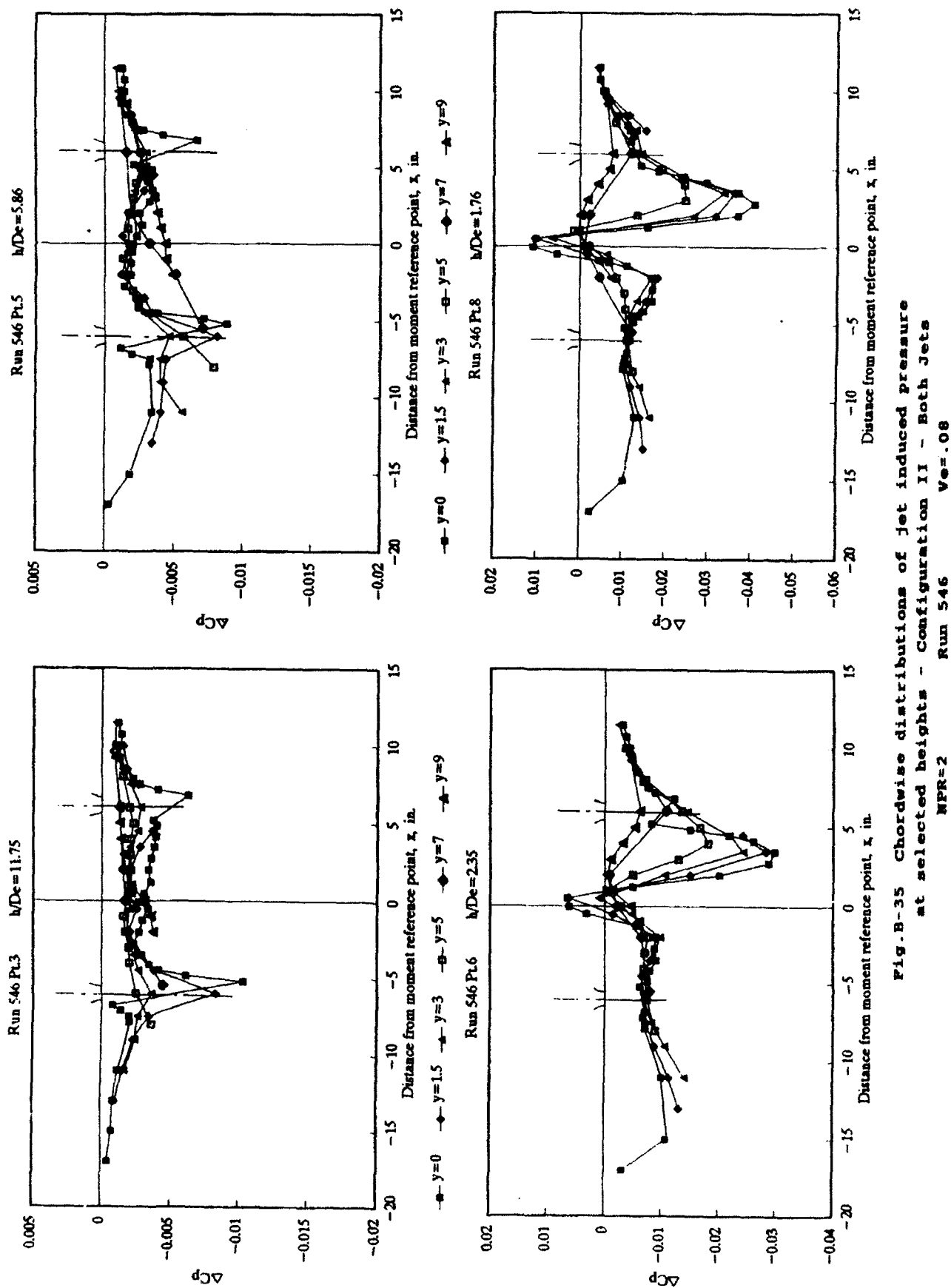


TABLE B-36 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - MPR=2

Run 547

Ve=1

Point	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary

Balance	n/D =	1.2	1.78	2.4	3.5	5.83	8.87	11.84
Pressure	d/L =	-1.399	-0.943	-0.670	-0.421	-0.308	-0.243	-0.204
Balance	d/L =	-1.484	-0.985	-0.702	-0.454	-0.335	-0.268	-0.235
Balance	dM/DT =	-0.399	-0.156	-0.167	-0.167	-0.123	-0.081	-0.081
Pressure	dM/DT =	-0.000	0.034	-0.141	-0.384	-0.043	0.011	-0.048

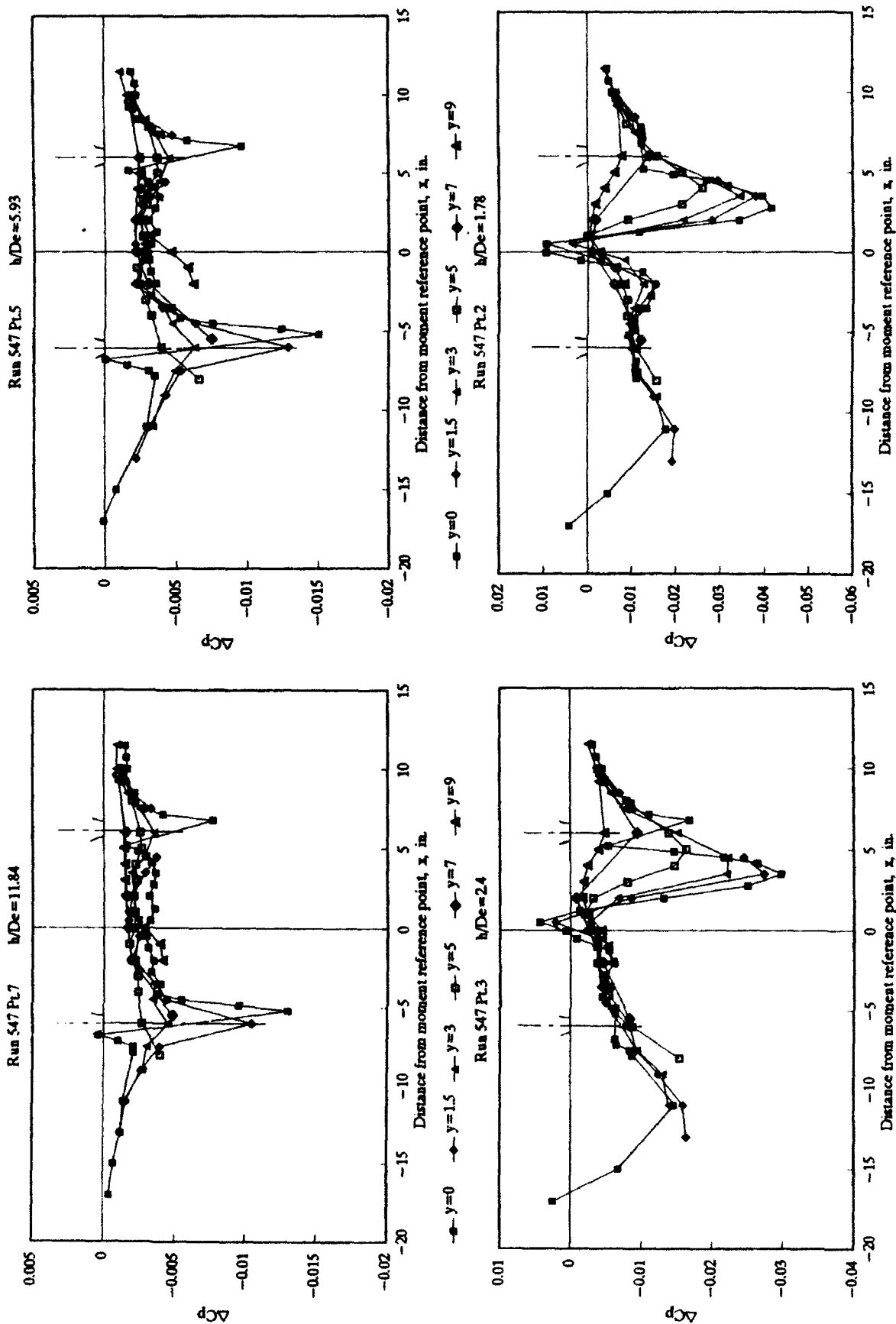


Fig. B-36 Chordwise distributions of jet induced pressure at selected heights - Configuration II - Both Jets  
 WFR=2 Run 547  $Ve=.1$

TABLE B-37 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=2  
Run 548 Ve=14

Point h/D =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary									
h/D =	24.9	8.85	5.87	3.52	2.37	1.76	1.19	ΔCp	ΔCp
Balance	-0.346	-0.315	-0.347	-0.469	-0.644	-0.855	-1.126		
Pressure	-0.436	-0.386	-0.464	-0.572	-0.784	-1.100	-1.784		
Balance	-0.118	-0.068	-0.108	-0.008	-0.273	-0.420	-0.698		
Pressure	0.015	0.075	0.338	0.212	-0.019	0.037	0.484		

Force and Moment Summary  
h/D = 24.9  
Balance dL/T = -0.398  
Pressure dL/T = -0.438  
Balance dM/DT = -0.118  
Pressure dM/DT = 0.015

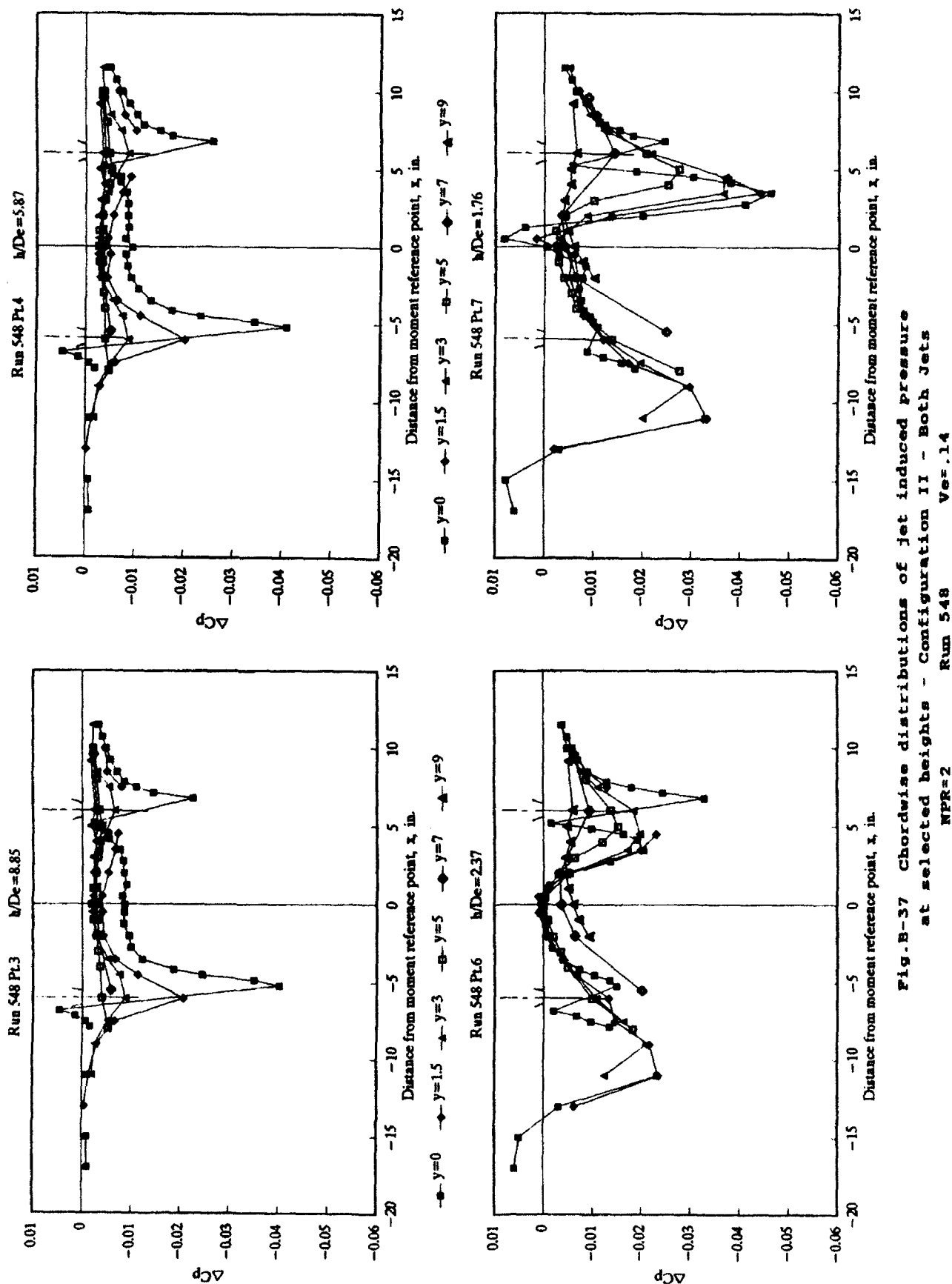


Fig.B-37 Chordwise distributions of jet induced pressure  
at selected heights - Configuration II - Both Jets  
NPR=2 Run 548  $Ve=.14$





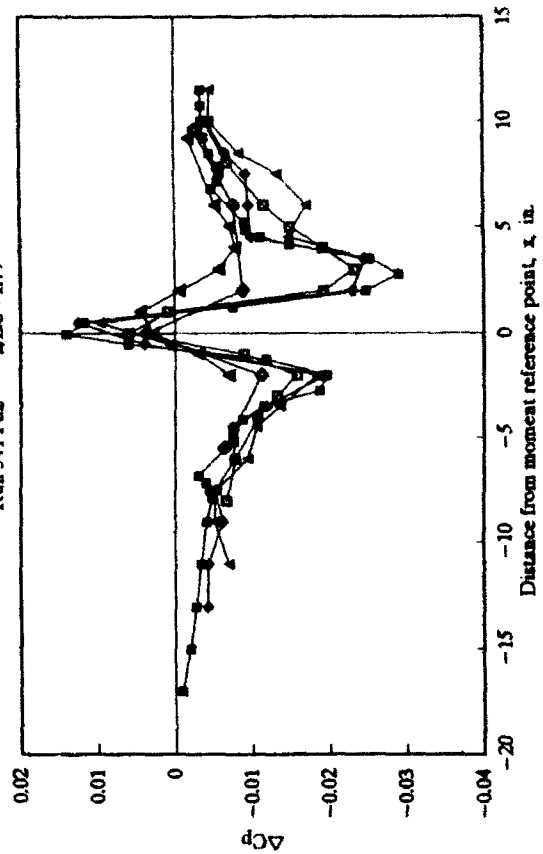
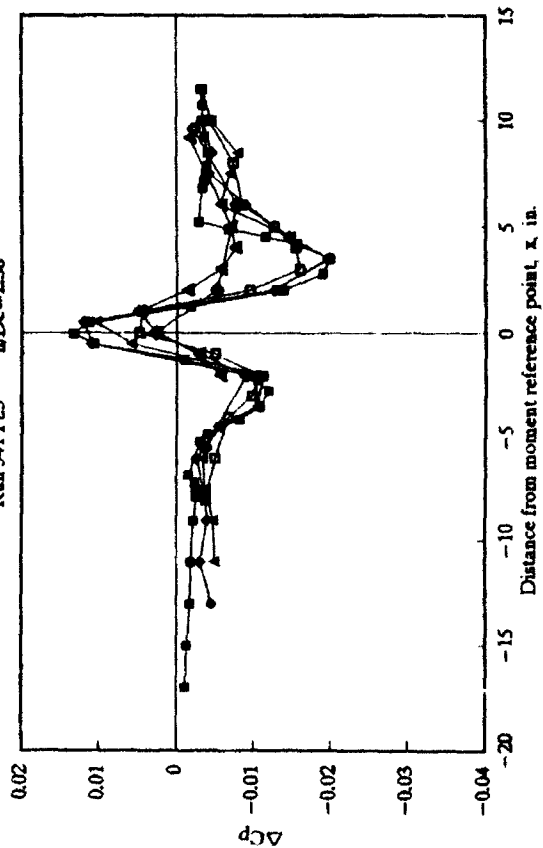
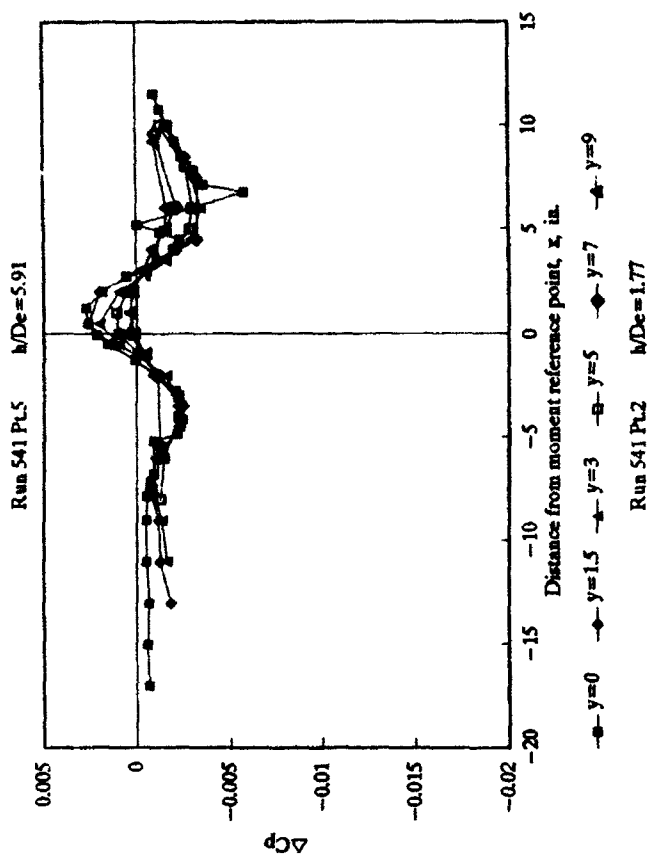
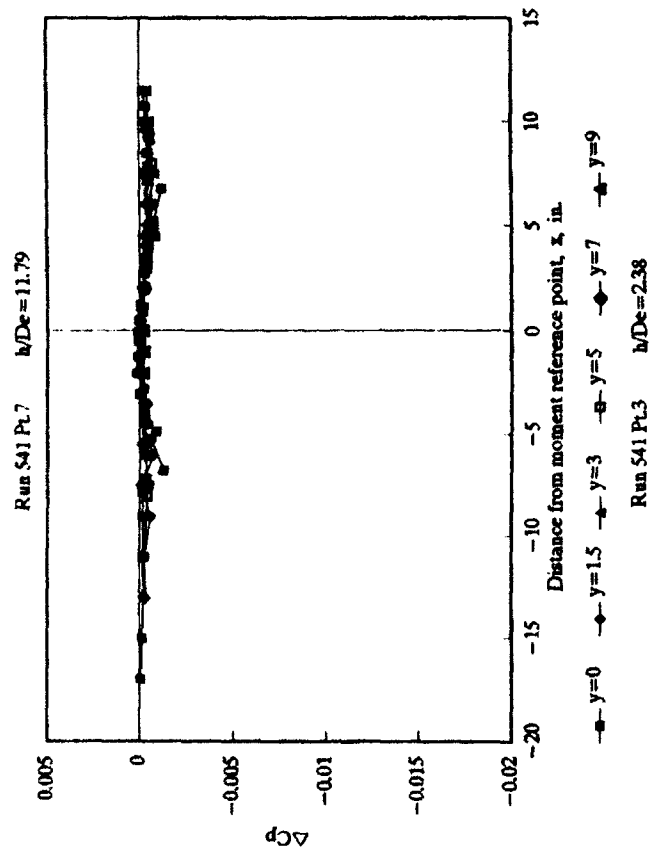


Fig.B-38 Chordwise distributions of jet induced pressure  
at selected heights - Configuration 11 - Both Jets  
NPR=4 Run 541  $Ve=0$

TABLE B-39 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=4  
Run 549 Ve=.02

Point NDA=	1	2	3	4	5	6	7	Point NDA=	1	2	3	4	5	6	7
Y	X	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	Y	X	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$
0	-17	-0.0011	-0.0017	-0.0016	-0.0014	-0.0008	-0.0002	3	-7.5	-0.0085	-0.0043	-0.0033	-0.0021	-0.0010	-0.0005
0	-16	-0.0031	-0.0021	-0.0015	-0.0013	-0.0007	-0.0003	3	-8	-0.0089	-0.0037	-0.0025	-0.0016	-0.0007	-0.0004
0	-13	-0.0004	-0.0002	-0.0001	-0.0002	-0.0000	0.0000	3	-4.5	-0.0119	-0.0045	-0.0027	-0.0018	-0.0007	-0.0004
0	-11	-0.0048	-0.0028	-0.0016	-0.0011	-0.0006	-0.0002	3	-3.5	-0.0171	-0.0072	-0.0043	-0.0018	-0.0006	-0.0004
0	-9	-0.0008	-0.0002	-0.0002	-0.0002	-0.0001	-0.0001	3	-2	-0.0205	-0.0107	-0.0048	-0.0015	-0.0007	-0.0003
0	-7.85	-0.0053	-0.0034	-0.0018	-0.0012	-0.0006	-0.0006	3	-0.5	-0.0048	-0.0003	-0.0020	-0.0011	-0.0007	-0.0003
0	-7.5	-0.0082	-0.0031	-0.0014	-0.0017	-0.0008	-0.0007	3	0.5	-0.0081	-0.0090	-0.0012	-0.0007	-0.0006	-0.0003
0	-7.15	-0.0048	-0.0038	-0.0016	-0.0011	-0.0007	-0.0006	3	2	-0.0276	-0.0109	-0.0063	-0.0008	-0.0003	-0.0003
0	-6.8	-0.0047	-0.0021	-0.0014	-0.0015	-0.0007	-0.0011	3	3.5	-0.0280	-0.0212	-0.0090	-0.0012	-0.0003	-0.0003
0	-6.2	-0.0103	-0.0040	-0.0015	-0.0024	-0.0011	-0.0022	3	4.5	-0.0172	-0.0082	-0.0048	-0.0027	-0.0002	-0.0004
0	-4.85	-0.0109	-0.0041	-0.0027	-0.0019	-0.0009	-0.0012	3	7.5	-0.0123	-0.0069	-0.0060	-0.0023	-0.0003	-0.0002
0	-4.5	-0.0118	-0.0046	-0.0041	-0.0013	-0.0006	-0.0007	3	8.5	-0.0078	-0.0114	-0.0048	-0.0015	-0.0002	-0.0003
0	-4.15	-0.0133	-0.0060	-0.0049	-0.0008	-0.0007	-0.0003	3	10	-0.0048	-0.0066	-0.0038	-0.0010	-0.0002	-0.0000
0	-3.5	-0.0193	-0.0082	-0.0049	-0.0012	-0.0005	-0.0002	3	11.5	-0.0045	-0.0027	-0.0022	-0.0007	-0.0003	-0.0001
0	-2.75	-0.0230	-0.0104	-0.0044	-0.0015	-0.0006	-0.0001	3	-8	-0.0074	-0.0038	-0.0025	-0.0020	-0.0010	-0.0006
0	-2	-0.0219	-0.0081	-0.0029	-0.0015	-0.0007	-0.0001	5	-8	-0.0069	-0.0040	-0.0025	-0.0016	-0.0006	-0.0004
0	-1.25	-0.0162	-0.0027	-0.0002	-0.0010	-0.0004	-0.0003	5	-4	-0.0102	-0.0049	-0.0028	-0.0017	-0.0006	-0.0004
0	-0.5	-0.0112	-0.0039	-0.0009	-0.0005	-0.0004	-0.0003	5	-3	-0.0132	-0.0068	-0.0039	-0.0018	-0.0010	-0.0006
0	-0.25	-0.0177	-0.0133	-0.0050	-0.0001	-0.0006	-0.0003	5	-2	-0.0151	-0.0081	-0.0042	-0.0018	-0.0007	-0.0004
0	0.5	-0.0166	-0.0129	-0.0062	-0.0004	-0.0004	-0.0003	5	-1	-0.0037	-0.0067	-0.0035	-0.0018	-0.0006	-0.0004
0	1.25	-0.0168	-0.0003	-0.0025	-0.0003	-0.0005	-0.0003	5	0	-0.0060	-0.0007	-0.0018	-0.0014	-0.0006	-0.0004
0	2	-0.0301	-0.0143	-0.0028	-0.0003	-0.0004	-0.0003	5	1	-0.0053	-0.0043	-0.0001	-0.0012	-0.0006	-0.0004
0	2.75	-0.0308	-0.0214	-0.0076	-0.0003	-0.0004	-0.0003	5	2	-0.0229	-0.0078	-0.0019	-0.0006	-0.0007	-0.0004
0	3.5	-0.0256	-0.0233	-0.0108	-0.0009	-0.0005	-0.0004	5	3	-0.0235	-0.0158	-0.0041	-0.0010	-0.0006	-0.0005
0	4.15	-0.0186	-0.0194	-0.0111	-0.0013	-0.0004	-0.0003	5	4	-0.0185	-0.0178	-0.0073	-0.0012	-0.0004	-0.0004
0	4.5	-0.0136	-0.0148	-0.0082	-0.0017	-0.0006	-0.0003	5	5	-0.0142	-0.0181	-0.0080	-0.0017	-0.0006	-0.0004
0	4.85	-0.0127	-0.0063	-0.0066	-0.0006	-0.0007	-0.0004	5	6	-0.0103	-0.0106	-0.0070	-0.0018	-0.0004	-0.0002
0	5.2	-0.0129	-0.0032	-0.0011	-0.0004	-0.0007	-0.0006	5	8	-0.0060	-0.0047	-0.0047	-0.0014	-0.0004	-0.0001
0	5.8	-0.0093	-0.0053	-0.0071	-0.0044	-0.0012	-0.0011	5	9	-0.0043	-0.0043	-0.0024	-0.0010	-0.0003	-0.0001
0	7.15	-0.0070	-0.0058	-0.0065	-0.0024	-0.0005	-0.0004	5	10	-0.0043	-0.0038	-0.0021	-0.0018	-0.0006	-0.0004
0	7.5	-0.0067	-0.0058	-0.0047	-0.0017	-0.0004	-0.0004	5	-5.5	-0.0053	-0.0038	-0.0021	-0.0018	-0.0006	-0.0004
0	7.85	-0.0062	-0.0051	-0.0039	-0.0014	-0.0003	-0.0001	7	-2	-0.0061	-0.0036	-0.0030	-0.0016	-0.0006	-0.0003
0	8.5	-0.0055	-0.0043	-0.0035	-0.0011	-0.0001	-0.0002	7	0	-0.0069	-0.0011	-0.0011	-0.0007	-0.0006	-0.0003
0	9.25	-0.0047	-0.0036	-0.0032	-0.0009	-0.0001	-0.0002	7	2	-0.0114	-0.0036	-0.0010	-0.0012	-0.0007	-0.0005
0	10	-0.0044	-0.0043	-0.0031	-0.0009	-0.0002	-0.0000	7	6	-0.0081	-0.0066	-0.0051	-0.0012	-0.0004	-0.0003
0	10.75	-0.0043	-0.0033	-0.0028	-0.0005	-0.0002	-0.0000	7	8	-0.0035	-0.0027	-0.0021	-0.0006	-0.0002	-0.0002
0	11.5	-0.0045	-0.0030	-0.0028	-0.0005	-0.0001	-0.0001	8	-2	-0.0040	-0.0040	-0.0024	-0.0014	-0.0007	-0.0004
0.8	-6	-0.0113	-0.0077	-0.0032	-0.0004	-0.0022	-0.0014	8	-1	-0.0003	-0.0035	-0.0022	-0.0016	-0.0007	-0.0003
0.8	6	-0.0168	-0.0098	-0.0049	-0.0123	-0.0014	-0.0010	8	0	-0.0032	-0.0004	-0.0015	-0.0017	-0.0007	-0.0004
1.5	-13	-0.0055	-0.0051	-0.0038	-0.0023	-0.0014	-0.0008	8	1	-0.0023	-0.0039	-0.0003	-0.0015	-0.0006	-0.0003
1.5	-11	-0.0054	-0.0038	-0.0020	-0.0013	-0.0008	-0.0004	8	2	-0.0027	-0.0006	-0.0000	-0.0012	-0.0006	-0.0003
1.5	-9	-0.0059	-0.0042	-0.0022	-0.0014	-0.0006	-0.0006	8	3	-0.0085	-0.0042	-0.0007	-0.0013	-0.0007	-0.0004
1.5	-7.5	-0.0054	-0.0044	-0.0019	-0.0014	-0.0007	-0.0006	8	4	-0.0082	-0.0069	-0.0021	-0.0012	-0.0007	-0.0004
1.5	-6	-0.0054	-0.0042	-0.0018	-0.0025	-0.0006	-0.0013	8	5	-0.0068	-0.0068	-0.0029	-0.0011	-0.0006	-0.0004
1.5	-4.5	-0.0125	-0.0038	-0.0023	-0.0009	-0.0007	-0.0006	8	8	-0.0048	-0.0081	-0.0034	-0.0010	-0.0006	-0.0003
1.5	-3.5	-0.0181	-0.0083	-0.0045	-0.0013	-0.0008	-0.0003	8	8.2	-0.0028	-0.0021	-0.0019	-0.0008	-0.0004	-0.0003
1.5	-2	-0.0219	-0.0089	-0.0042	-0.0011	-0.0003	-0.0002	10	2	-0.0008	-0.0014	-0.0001	-0.0015	-0.0007	-0.0004
1.5	-0.5	-0.0111	-0.0038	-0.0011	-0.0003	-0.0003	-0.0003	11	2	-0.0001	-0.0015	-0.0002	-0.0014	-0.0004	-0.0004
1.5	0.5	-0.0083	-0.0030	-0.0004	-0.0001	-0.0004	-0.0002	11	6	-0.0034	-0.0036	-0.0020	-0.0010	-0.0006	-0.0004
1.5	2	-0.0283	-0.0121	-0.0001	-0.0003	-0.0002	-0.0002	12	6	-0.0034	-0.0028	-0.0014	-0.0010	-0.0006	-0.0004
1.5	3.5	-0.0251	-0.0028	-0.0004	-0.0010	-0.0004	-0.0003	12	8.6	-0.0016	-0.0017	-0.0014	-0.0008	-0.0006	-0.0004
1.5	4.5	-0.0131	-0.0178	-0.0110	-0.0022	-0.0004	-0.0002	13	6	-0.0016	-0.0021	-0.0010	-0.0011	-0.0006	-0.0004
1.5	6	-0.0004	-0.0002	-0.0001	-0.0001	-0.0001	-0.0000	Force and Moment Summary							
1.5	7.5	-0.0071	-0.0073	-0.0055	-0.0022	-0.0001	-0.0004	NDA=	1.79	2.36	3.54	5.86	8.86	11.74	25.1
1.5	8.5	-0.0072	-0.0066	-0.0042	-0.0015	-0.0003	-0.0001	Balance	dL/T =	-0.785	-0.585	-0.320	-0.141	-0.078	-0.042
1.5	10	-0.0046	-0.0036	-0.0022	-0.0010	-0.0002	-0.0000	Pressure	dL/T =	-0.739	-0.524	-0.293	-0.135	-0.081	-0.035
1.5	11.5	-0.0049	-0.0036	-0.0025	-0.0004	-0.0001	-0.0000	Balance	dM/TDe=	0.296	0.564	0.325	0.036	0.046	0.002
3	-9	-0.0080	-0.0060	-0.0042	-0.0025	-0.0011	-0.0006	Pressure	dM/TDe=	0.368	0.595	0.304	-0.025	-0.048	-0.022

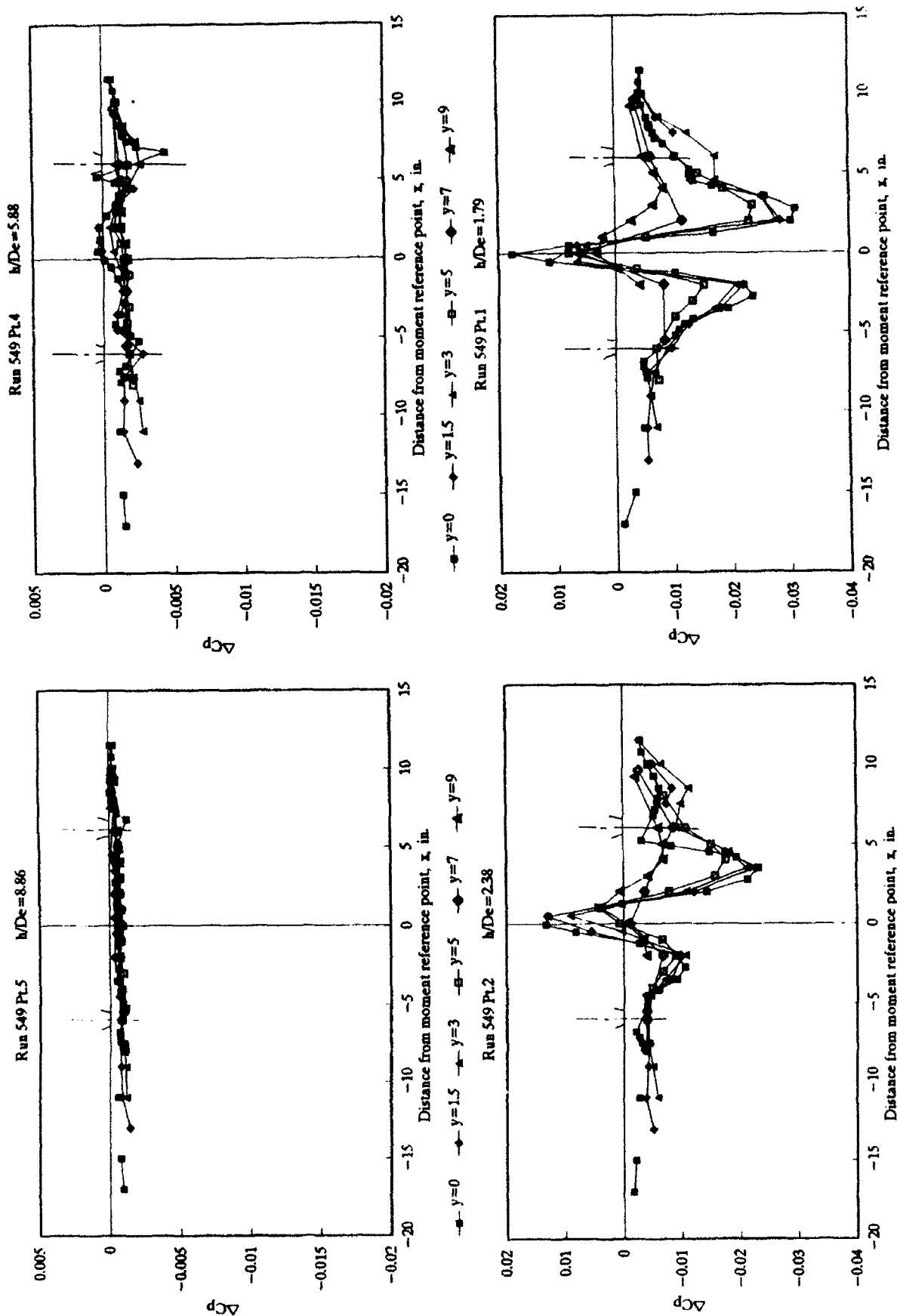


Fig. B-39 Chordwise distributions of jet induced pressure at selected heights - Configuration II - Both Jets  
NPR=4 Run 549  $Ve=.02$

TABLE B-40 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=4  
Run 550 Ve=0.4

Point	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NDe =	25.1	11.76	8.85	6.94	3.54	2.37	1.6	1.0	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Force and Moment Summary

	N/Da =	25.1	11.76	6.85	5.94	3.54	2.37	1.0
Balance	dU/T =	-0.045	-0.103	-0.114	-0.153	-0.310	-0.815	-0.792
Pressure	dU/T =	-0.057	-0.096	-0.100	-0.159	-0.315	-0.648	-0.734
Balance	dH/TDe =	-0.041	-0.113	-0.158	-0.180	-0.080	0.244	0.578
Pressure	dH/TDe =	-0.050	-0.102	-0.107	-0.141	0.146	0.637	0.319

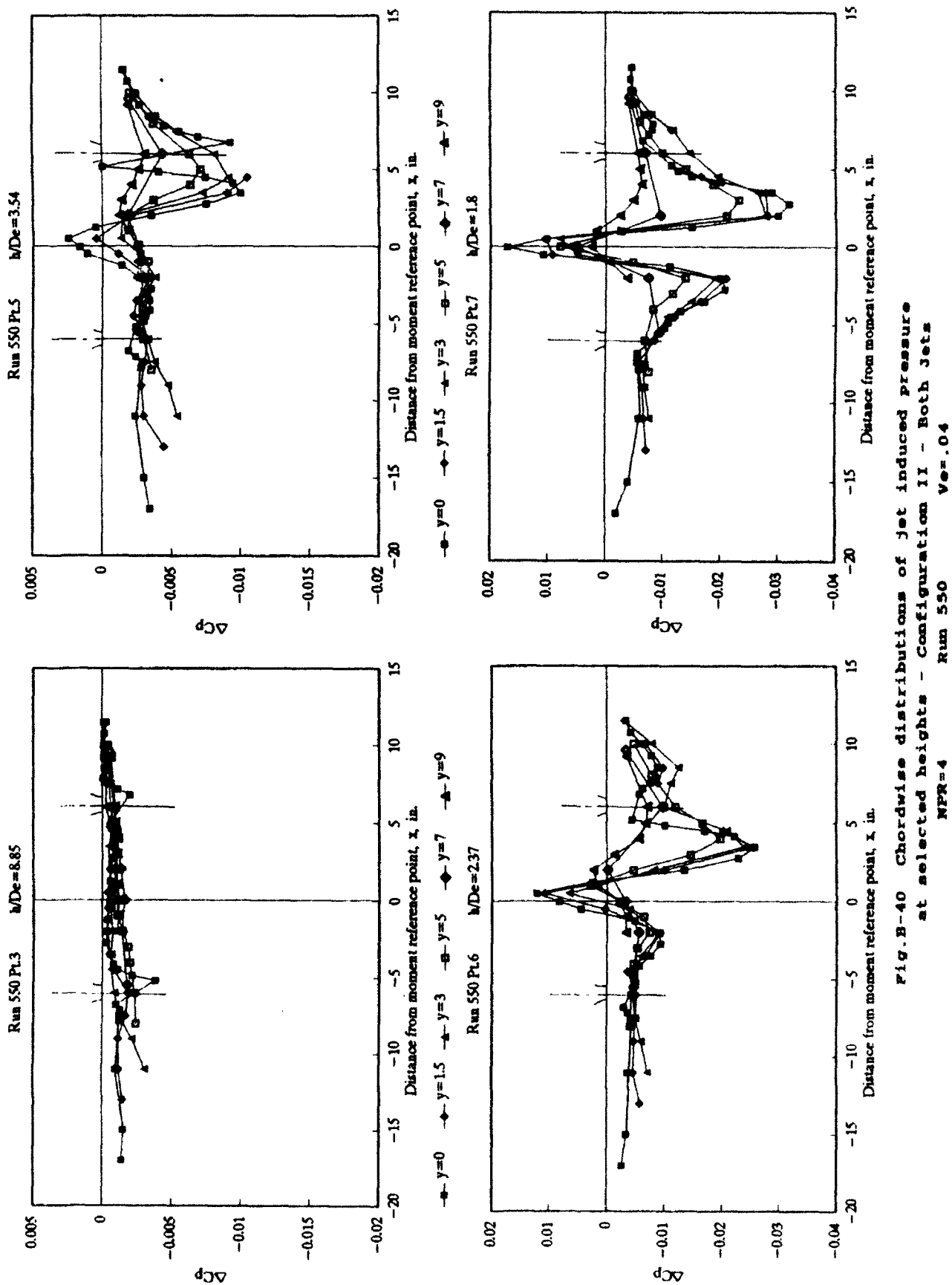


Fig. B-40 Chordwise distributions of jet induced pressure at selected heights - Configuration II - Both Jets  
Run 550  $h/De=4$   $Re=0.04$

TABLE B-41 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=4

Run 551  
Ve=0.6

Point N/D=	1	2	3	4	5	Point N/D=	1	2	3	4	5
y	x	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	y	x	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$
0	-17	-0.0033	-0.0058	-0.0058	-0.0030	3	-7.5	-0.0085	-0.0048	-0.0043	-0.0020
0	-15	-0.0058	-0.0051	-0.0050	-0.0032	3	-6	-0.0084	-0.0048	-0.0037	-0.0021
0	-13	-0.0011	-0.0008	-0.0007	-0.0005	3	-4.5	-0.0109	-0.0053	-0.0027	-0.0015
0	-11	-0.0077	-0.0048	-0.0032	-0.0017	3	-3.5	-0.0148	-0.0068	-0.0029	-0.0011
0	-9	-0.0073	-0.0058	-0.0057	-0.0038	3	-2	-0.0177	-0.0077	-0.0030	-0.0008
0	-7.5	-0.0074	-0.0048	-0.0033	-0.0018	3	-0.5	-0.0038	-0.0009	-0.0021	-0.0011
0	-7.5	-0.0077	-0.0048	-0.0032	-0.0018	3	0.5	-0.0082	-0.0008	-0.0002	-0.0011
0	-7.15	-0.0077	-0.0037	-0.0031	-0.0010	3	2	-0.0288	-0.0127	-0.0018	-0.0011
0	-6.5	-0.0079	-0.0031	-0.0028	-0.0008	3	3.5	-0.0278	-0.0232	-0.0079	-0.0014
0	-6.2	-0.0114	-0.0041	-0.0042	-0.0005	3	4.5	-0.0203	-0.0203	-0.0065	-0.0010
0	-4.5	-0.0121	-0.0048	-0.0039	-0.0044	3	6	-0.0140	-0.0109	-0.0082	-0.0019
0	-4.5	-0.0133	-0.0058	-0.0033	-0.0028	3	7.5	-0.0119	-0.0089	-0.0053	-0.0013
0	-4.15	-0.0146	-0.0068	-0.0030	-0.0014	3	8.5	-0.0098	-0.0103	-0.0038	-0.0010
0	-3.5	-0.0181	-0.0078	-0.0038	-0.0010	3	10	-0.0065	-0.0077	-0.0034	-0.0008
0	-2.75	-0.0202	-0.0078	-0.0030	-0.0010	3	11.5	-0.0042	-0.0034	-0.0018	-0.0007
0	-2	-0.0198	-0.0068	-0.0030	-0.0010	5	-6	-0.0087	-0.0043	-0.0039	-0.0042
0	-1.25	-0.0108	-0.0023	-0.0015	-0.0011	5	-4	-0.0087	-0.0043	-0.0030	-0.0040
0	-0.5	-0.0087	-0.0007	-0.0000	-0.0011	5	-4	-0.0073	-0.0048	-0.0035	-0.0018
0	-0.5	-0.0187	-0.0094	-0.0038	-0.0013	5	-3	-0.0098	-0.0068	-0.0059	-0.0018
0	0.5	-0.0098	-0.0096	-0.0014	-0.0012	5	-2	-0.0114	-0.0087	-0.0058	-0.0011
0	1.25	-0.0188	-0.0093	-0.0001	-0.0014	5	-1	-0.0038	-0.0040	-0.0027	-0.0018
0	2	-0.0311	-0.0188	-0.0034	-0.0014	5	0	-0.0088	-0.0008	-0.0018	-0.0010
0	2.75	-0.0338	-0.0244	-0.0073	-0.0018	5	1	-0.0038	-0.0018	-0.0008	-0.0008
0	3.5	-0.0307	-0.0257	-0.0084	-0.0015	5	2	-0.0218	-0.0077	-0.0018	-0.0010
0	4.15	-0.0225	-0.0212	-0.0098	-0.0018	5	3	-0.0244	-0.0187	-0.0041	-0.0017
0	4.5	-0.0172	-0.0163	-0.0082	-0.0015	5	4	-0.0201	-0.0183	-0.0071	-0.0011
0	4.85	-0.0140	-0.0093	-0.0030	-0.0015	5	5	-0.0148	-0.0156	-0.0078	-0.0010
0	5.2	-0.0184	-0.0059	-0.0015	-0.0014	5	6	-0.0104	-0.0118	-0.0076	-0.0008
0	5.8	-0.0072	-0.0070	-0.0108	-0.0037	5	6	-0.0098	-0.0068	-0.0043	-0.0007
0	7.15	-0.0063	-0.0072	-0.0098	-0.0023	5	10	-0.0048	-0.0048	-0.0022	-0.0009
0	7.5	-0.0082	-0.0079	-0.0070	-0.0018	5	-5.5	-0.0103	-0.0048	-0.0027	-0.0030
0	7.85	-0.0083	-0.0083	-0.0048	-0.0015	5	-2	-0.0098	-0.0048	-0.0026	-0.0032
0	8.5	-0.0078	-0.0084	-0.0038	-0.0010	7	0	-0.0038	-0.0011	-0.0080	-0.0028
0	8.25	-0.0062	-0.0078	-0.0039	-0.0007	7	2	-0.0062	-0.0027	-0.0014	-0.0023
0	10	-0.0063	-0.0063	-0.0024	-0.0008	7	6	-0.0084	-0.0084	-0.0061	-0.0016
0	10.75	-0.0048	-0.0048	-0.0018	-0.0008	7	9.5	-0.0048	-0.0034	-0.0023	-0.0010
0	11.5	-0.0050	-0.0034	-0.0014	-0.0008	8.5	-2	-0.0030	-0.0047	-0.0025	-0.0025
0.5	-8	-0.0084	-0.0047	-0.0123	-0.0128	8	-1	-0.0012	-0.0033	-0.0064	-0.0018
0.5	6	-0.0148	-0.0108	-0.0318	-0.0088	8	0	-0.0010	-0.0017	-0.0084	-0.0019
1.5	-11	-0.0087	-0.0084	-0.0039	-0.0030	8	1	-0.0008	-0.0007	-0.0017	-0.0018
1.5	-9	-0.0079	-0.0048	-0.0037	-0.0019	8	2	-0.0084	-0.0001	-0.0010	-0.0018
1.5	-7.5	-0.0079	-0.0043	-0.0040	-0.0022	8	3	-0.0088	-0.0008	-0.0015	-0.0024
1.5	-6	-0.0098	-0.0041	-0.0033	-0.0037	8	4	-0.0088	-0.0008	-0.0024	-0.0023
1.5	-4.5	-0.0128	-0.0048	-0.0030	-0.0019	8	5	-0.0089	-0.0071	-0.0029	-0.0019
1.5	-3.5	-0.0187	-0.0074	-0.0030	-0.0012	8	6	-0.0070	-0.0070	-0.0034	-0.0018
1.5	-2	-0.0183	-0.0071	-0.0028	-0.0008	8	9.2	-0.0052	-0.0038	-0.0022	-0.0010
1.5	-0.5	-0.0084	-0.0040	-0.0008	-0.0011	10	2	-0.0014	-0.0002	-0.0018	-0.0018
1.5	0.5	-0.0099	-0.0042	-0.0013	-0.0010	11	2	-0.0010	-0.0008	-0.0018	-0.0019
1.5	2	-0.0288	-0.0141	-0.0020	-0.0012	11	6	-0.0083	-0.0038	-0.0018	-0.0014
1.5	3.5	-0.0300	-0.0252	-0.0080	-0.0017	12	6	-0.0012	-0.0022	-0.0018	-0.0013
1.5	4.5	-0.0187	-0.0204	-0.0103	-0.0018	12	8.5	-0.0012	-0.0022	-0.0016	-0.0010
1.5	7.5	-0.0128	-0.0082	-0.0039	-0.0017	13	6	-0.0008	-0.0014	-0.0016	-0.0010
1.5	8.5	-0.0098	-0.0082	-0.0038	-0.0011						
1.5	10	-0.0085	-0.0070	-0.0024	-0.0008						
1.5	11.5	-0.0018	-0.0006	-0.0011	-0.0007						
3	-11	-0.0088	-0.0083	-0.0084	-0.0038						
3	-8	-0.0084	-0.0082	-0.0082	-0.0034						

Force and Moment Summary

N/D=	1.79	2.37	3.53	5.9	8.85
Balance $dL/T$	-0.822	-0.582	-0.317	-0.183	-0.148
Pressure $dL/T$	-0.806	-0.575	-0.336	-0.194	-0.181
Balance $dM/De$	0.155	0.444	0.037	-0.291	-0.180
Pressure $dM/De$	0.268	0.805	0.078	-0.184	-0.124

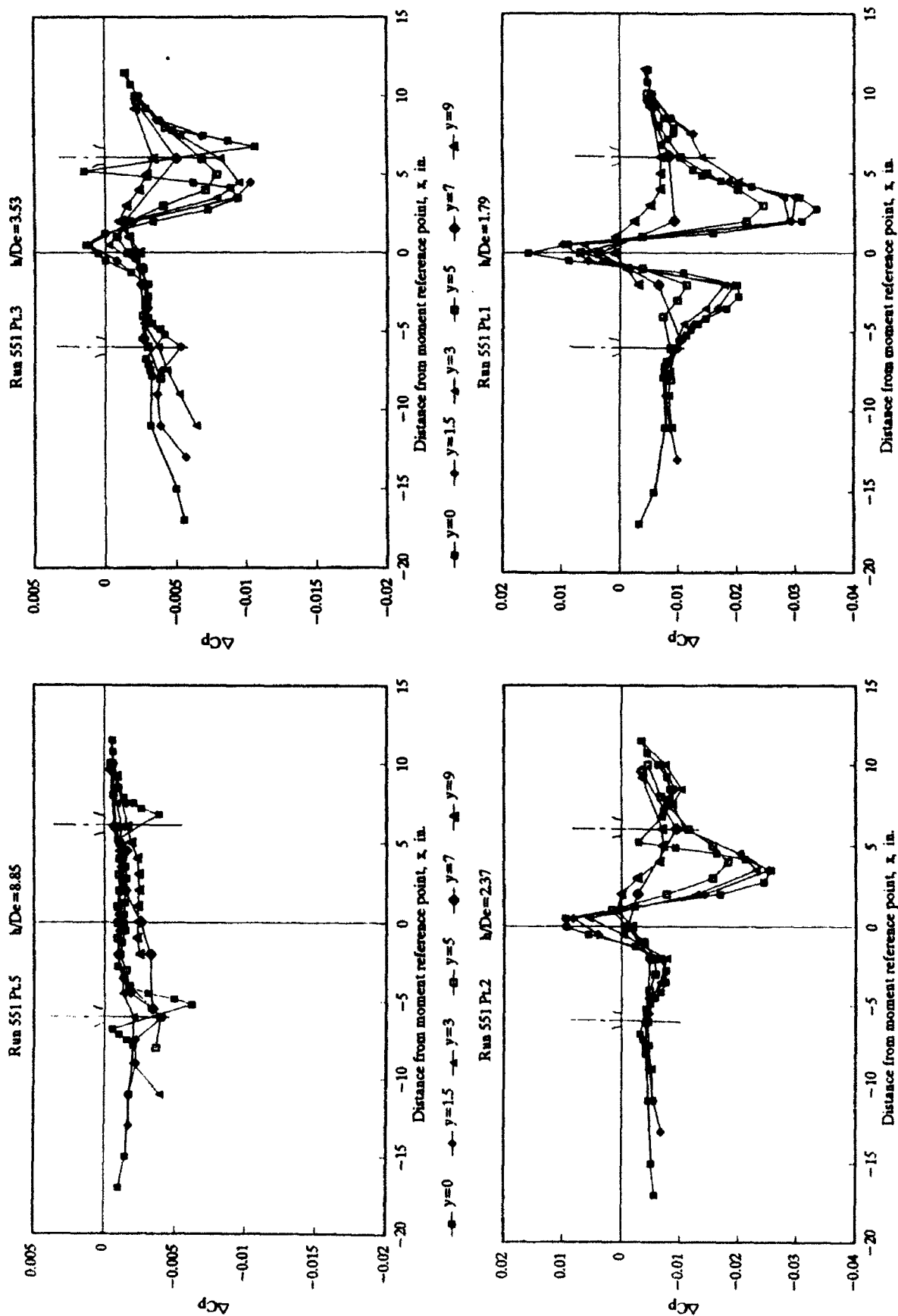


Fig.B-41 Chordwise distributions of jet induced pressure  
at selected heights - Configuration II - Both Jets

NPR-4 Run 551 Ver.06

TABLE B-42 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=4  
Run 552 Ve=0.8

Point N/O =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary

N/Ds =	23.96	8.91	5.86	3.57	2.41	1.79	
Balance	dL/T =	-0.120	-0.175	-0.225	-0.333	-0.608	-0.841
Pressure	dL/T =	-0.135	-0.206	-0.284	-0.380	-0.623	-0.854
Balance	dM/TDs =	-0.117	-0.158	-0.215	-0.315	-0.498	-0.700
Pressure	dM/TDs =	-0.074	-0.100	-0.135	-0.208	-0.315	-0.498



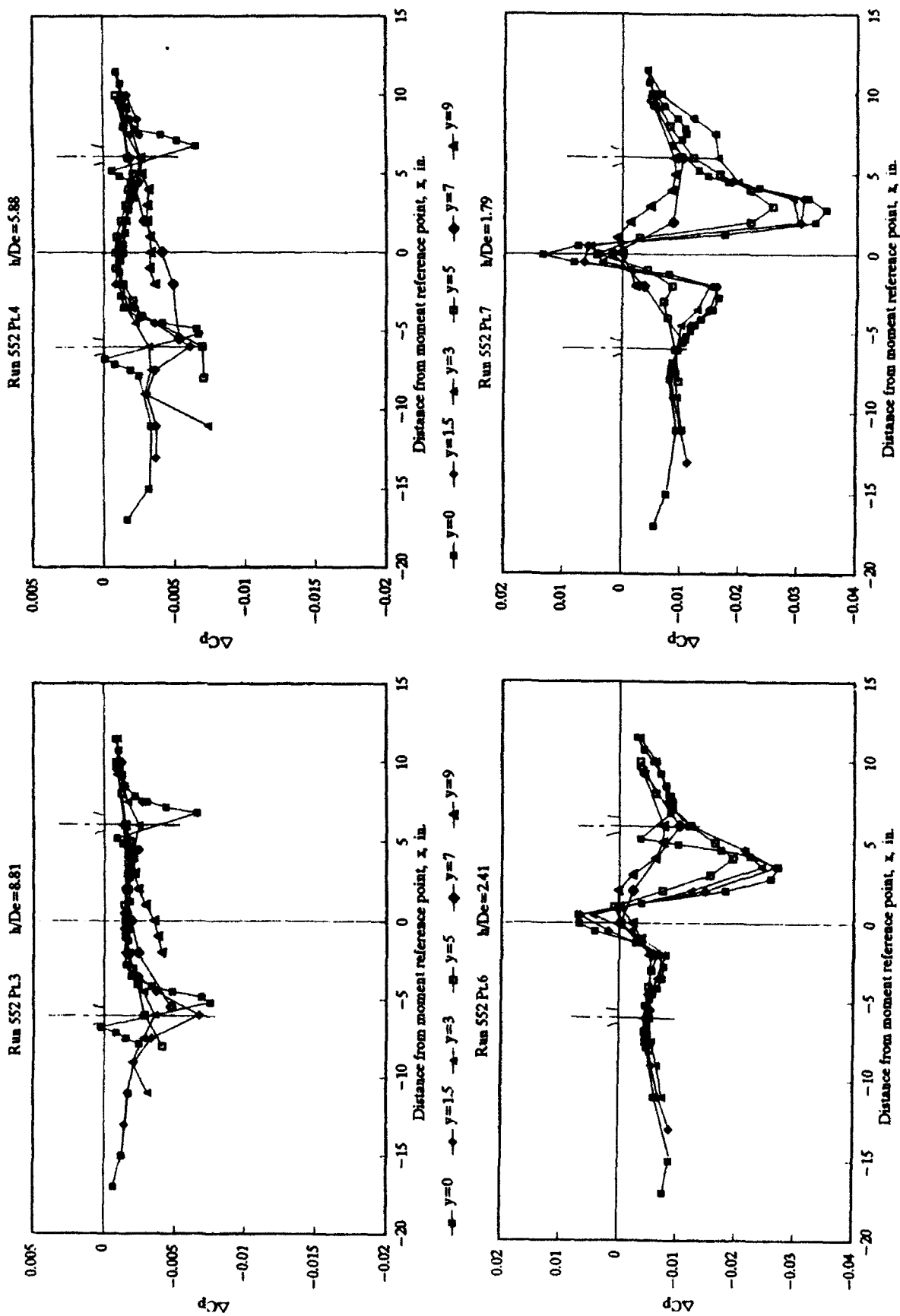


Fig.B-42 Chordwise distributions of jet induced pressure  
at selected heights - Configuration II - Both Jets  
Run 552  $V_e=0.8$   $MFR=4$

TABLE B-43 JET INDUCED PRESSURE INCREMENTS  
Configuration II - Both Jets - NPR=4

Run 553 Ve=1

Point N/Da =	2	3	4	5	6	7	Point N/Da =	2	3	4	5	6	7
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-17	-0.0019	-0.0032	-0.0004	-0.0004	-0.0007	3	-7.5	-0.0041	-0.0046	-0.0040	-0.0030	-0.0027
0	-15	-0.0106	-0.0078	-0.0018	-0.0007	-0.0008	3	-4	-0.0050	-0.0040	-0.0031	-0.0042	-0.0038
0	-13	-0.0015	-0.0012	-0.0011	-0.0008	-0.0007	3	-4.5	-0.0041	-0.0034	-0.0035	-0.0035	-0.0032
0	-11	-0.0084	-0.0064	-0.0031	-0.0010	-0.0008	3	-3.5	-0.0038	-0.0015	-0.0028	-0.0028	-0.0024
0	-8	-0.0017	-0.0016	-0.0016	-0.0012	-0.0010	3	-2	-0.0048	-0.0010	-0.0018	-0.0018	-0.0014
0	-7.85	-0.0048	-0.0034	-0.0028	-0.0018	-0.0016	3	-0.5	-0.0022	-0.0029	-0.0015	-0.0014	-0.0013
0	-7.5	-0.0084	-0.0059	-0.0030	-0.0008	-0.0007	3	0.5	0.0033	-0.0011	-0.0017	-0.0018	-0.0015
0	-7.15	-0.0047	-0.0014	-0.0004	-0.0002	-0.0003	3	2	-0.0108	-0.0031	-0.0018	-0.0018	-0.0015
0	-6.8	-0.0041	-0.0003	0.0017	0.0017	0.0018	3	3.5	-0.0258	-0.0087	-0.0024	-0.0021	-0.0019
0	-6.5	-0.0052	-0.0004	0.0117	0.0123	0.0107	3	4.5	-0.0236	-0.0048	-0.0030	-0.0023	-0.0018
0	-4.85	-0.0048	-0.0066	-0.0111	-0.0109	-0.0097	3	6	-0.0140	-0.0072	-0.0039	-0.0034	-0.0031
0	-4.5	-0.0041	-0.0037	-0.0079	-0.0077	-0.0068	3	7.5	-0.0086	-0.0048	-0.0034	-0.0027	-0.0025
0	-4.15	-0.0040	-0.0028	-0.0097	-0.0065	-0.0043	3	8.5	-0.0077	-0.0038	-0.0024	-0.0019	-0.0012
0	-3.5	-0.0042	-0.0011	-0.0039	-0.0036	-0.0029	3	10	-0.0087	-0.0023	-0.0020	-0.0014	-0.0014
0	-2.75	-0.0047	-0.0009	-0.0027	-0.0034	-0.0029	3	11.5	-0.0041	-0.0015	-0.0013	-0.0014	-0.0013
0	-2	-0.0057	-0.0008	-0.0028	-0.0030	-0.0023	5	-6	-0.0070	-0.0048	-0.0039	-0.0029	-0.0027
0	-1.25	-0.0062	-0.0003	-0.0024	-0.0027	-0.0022	5	-8	-0.0051	-0.0048	-0.0036	-0.0028	-0.0024
0	-0.5	0.0003	-0.0006	-0.0037	-0.0035	-0.0026	5	-4	-0.0044	-0.0041	-0.0027	-0.0024	-0.0020
0	0.05	0.0030	-0.0007	-0.0028	-0.0030	-0.0023	5	-3	-0.0048	-0.0032	-0.0024	-0.0022	-0.0019
0	0.8	0.0037	-0.0008	-0.0028	-0.0025	-0.0020	5	-2	-0.0050	-0.0022	-0.0019	-0.0018	-0.0015
0	1.25	-0.0008	-0.0015	-0.0028	-0.0025	-0.0021	5	-1	-0.0036	-0.0016	-0.0016	-0.0016	-0.0012
0	2	-0.0187	-0.0028	-0.0028	-0.0028	-0.0025	5	1	0.0008	-0.0013	-0.0015	-0.0014	-0.0011
0	2.75	-0.0270	-0.0041	-0.0028	-0.0027	-0.0025	5	2	-0.0058	-0.0025	-0.0018	-0.0017	-0.0013
0	3.5	-0.0286	-0.0049	-0.0028	-0.0028	-0.0021	5	3	-0.0148	-0.0033	-0.0022	-0.0019	-0.0015
0	4.15	-0.0254	-0.0047	-0.0018	-0.0028	-0.0024	5	4	-0.0203	-0.0049	-0.0025	-0.0021	-0.0018
0	4.8	-0.0182	-0.0032	-0.0025	-0.0025	-0.0023	5	5	-0.0181	-0.0049	-0.0029	-0.0025	-0.0021
0	4.85	-0.0108	-0.0018	-0.0021	-0.0017	-0.0015	5	6	-0.0138	-0.0052	-0.0024	-0.0019	-0.0017
0	6.2	-0.0034	0.0020	-0.0007	-0.0011	-0.0011	5	6	-0.0087	-0.0036	-0.0021	-0.0018	-0.0014
0	6.8	-0.0097	-0.0186	-0.0109	-0.0089	-0.0082	5	8	-0.0041	-0.0019	-0.0018	-0.0012	-0.0008
0	7.15	-0.0107	-0.0146	-0.0078	-0.0065	-0.0061	5	8.5	-0.0056	-0.0065	-0.0064	-0.0035	-0.0032
0	7.5	-0.0110	-0.0114	-0.0081	-0.0060	-0.0045	5	9	-0.0045	-0.0031	-0.0030	-0.0022	-0.0018
0	7.85	-0.0102	-0.0082	-0.0062	-0.0038	-0.0033	7	-2	-0.0045	-0.0022	-0.0028	-0.0022	-0.0018
0	8.5	-0.0084	-0.0054	-0.0036	-0.0030	-0.0025	7	0	-0.0016	-0.0026	-0.0025	-0.0018	-0.0014
0	9.25	-0.0068	-0.0038	-0.0031	-0.0028	-0.0020	7	2	-0.0014	-0.0025	-0.0021	-0.0017	-0.0014
0	10	-0.0073	-0.0028	-0.0028	-0.0022	-0.0014	7	6	-0.0107	-0.0036	-0.0023	-0.0018	-0.0012
0	10.75	-0.0066	-0.0022	-0.0022	-0.0020	-0.0014	7	9.8	-0.0044	-0.0023	-0.0018	-0.0014	-0.0008
0	11.5	-0.0037	-0.0017	-0.0018	-0.0014	-0.0007	8	-2	-0.0044	-0.0029	-0.0049	-0.0029	-0.0025
0.8	-8	-0.0097	-0.0187	-0.0249	-0.0281	-0.0274	8	-1	-0.0038	-0.0024	-0.0044	-0.0023	-0.0023
0.8	-6	-0.0151	-0.0294	-0.0194	-0.0168	-0.0134	8	0	-0.0033	-0.0028	-0.0037	-0.0023	-0.0019
0.8	-3	-0.0127	-0.0085	-0.0027	-0.0008	-0.0006	8	1	-0.0014	-0.0027	-0.0031	-0.0021	-0.0019
1.5	-13	-0.0101	-0.0073	-0.0034	-0.0013	-0.0011	8	2	-0.0008	-0.0028	-0.0028	-0.0018	-0.0014
1.5	-11	-0.0078	-0.0058	-0.0036	-0.0020	-0.0016	8	3	-0.0020	-0.0028	-0.0034	-0.0018	-0.0014
1.5	-9	-0.0078	-0.0058	-0.0036	-0.0020	-0.0016	8	4	-0.0051	-0.0028	-0.0025	-0.0021	-0.0018
1.5	-7.5	-0.0080	-0.0050	-0.0045	-0.0034	-0.0034	8	5	-0.0068	-0.0025	-0.0021	-0.0018	-0.0012
1.5	-6	-0.0057	-0.0042	-0.0036	-0.0030	-0.0030	8	6	-0.0068	-0.0025	-0.0022	-0.0018	-0.0011
1.5	-4.5	-0.0040	-0.0034	-0.0030	-0.0024	-0.0024	8	8	-0.0047	-0.0021	-0.0017	-0.0012	-0.0007
1.5	-3.5	-0.0038	-0.0018	-0.0039	-0.0038	-0.0034	8	9	-0.0019	-0.0024	-0.0029	-0.0020	-0.0018
1.5	-2	-0.0051	-0.0007	-0.0027	-0.0024	-0.0021	10	2	-0.0018	-0.0024	-0.0029	-0.0020	-0.0020
1.5	-0.5	-0.0018	-0.0004	-0.0024	-0.0022	-0.0018	11	2	-0.0028	-0.0025	-0.0040	-0.0023	-0.0020
1.5	0.5	0.0043	-0.0008	-0.0018	-0.0017	-0.0016	11	4	-0.0028	-0.0022	-0.0020	-0.0018	-0.0013
1.5	2	-0.0136	-0.0028	-0.0020	-0.0021	-0.0016	12	6	-0.0054	-0.0034	-0.0023	-0.0017	-0.0014
1.5	3.5	-0.0280	-0.0060	-0.0068	-0.0064	-0.0061	12	8	-0.0019	-0.0017	-0.0017	-0.0013	-0.0008
1.5	4.5	-0.0244	-0.0075	-0.0032	-0.0029	-0.0024	13	8	-0.0021	-0.0020	-0.0022	-0.0014	-0.0010
1.5	6	-0.0020	-0.0017	-0.0017	-0.0015	-0.0011							
1.5	7.5	-0.0102	-0.0075	-0.0050	-0.0040	-0.0037							
1.5	8.5	-0.0082	-0.0047	-0.0036	-0.0031	-0.0024							
1.5	10	-0.0074	-0.0028	-0.0026	-0.0023	-0.0012							
1.5	11.5	-0.0018	-0.0016	-0.0016	-0.0015	-0.0011							
3	-11	-0.0121	-0.0111	-0.0039	-0.0019	-0.0022							
3	-9	-0.0085	-0.0081	-0.0035	-0.0019	-0.0015							

Force and Moment Summary

Point N/Da =	2	3	4	5	6	7
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
Balance	d/L	-0.624	-0.340	-0.285	-0.177	-0.150
Pressure	d/L	-0.687	-0.378	-0.292	-0.186	-0.164
Balance	dM/7Da	0.168	-0.343	-0.198	-0.052	-0.038
Pressure	dM/7Da	0.389	-0.224	-0.058	0.048	0.027

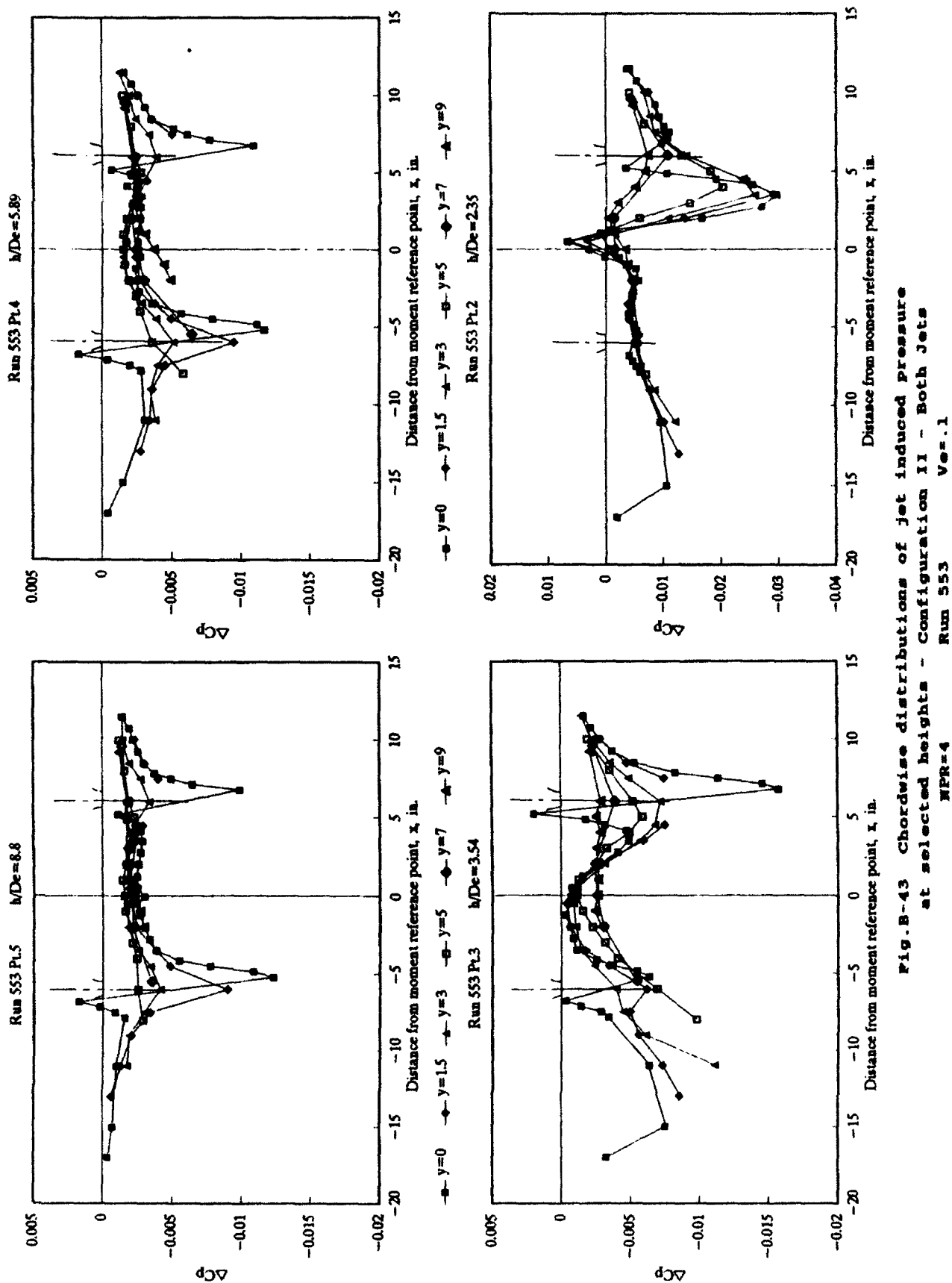
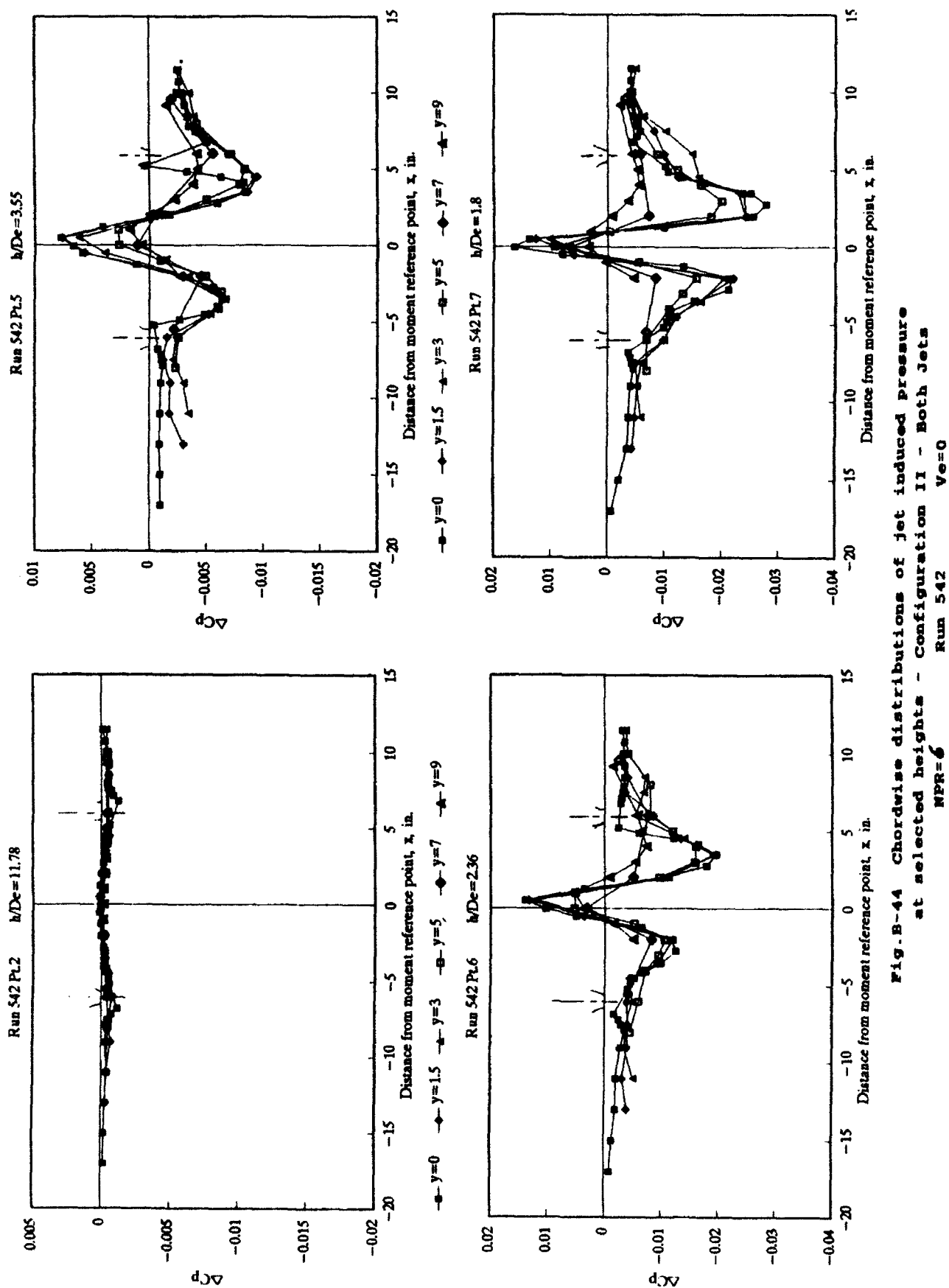


Fig.B-43 Chordwise distributions of jet induced pressure  
at selected heights - Configuration 11 - Both Jets  
NPR-4 Run 553 Ver.1

Only

### Alignments, Moment and Moment Summary

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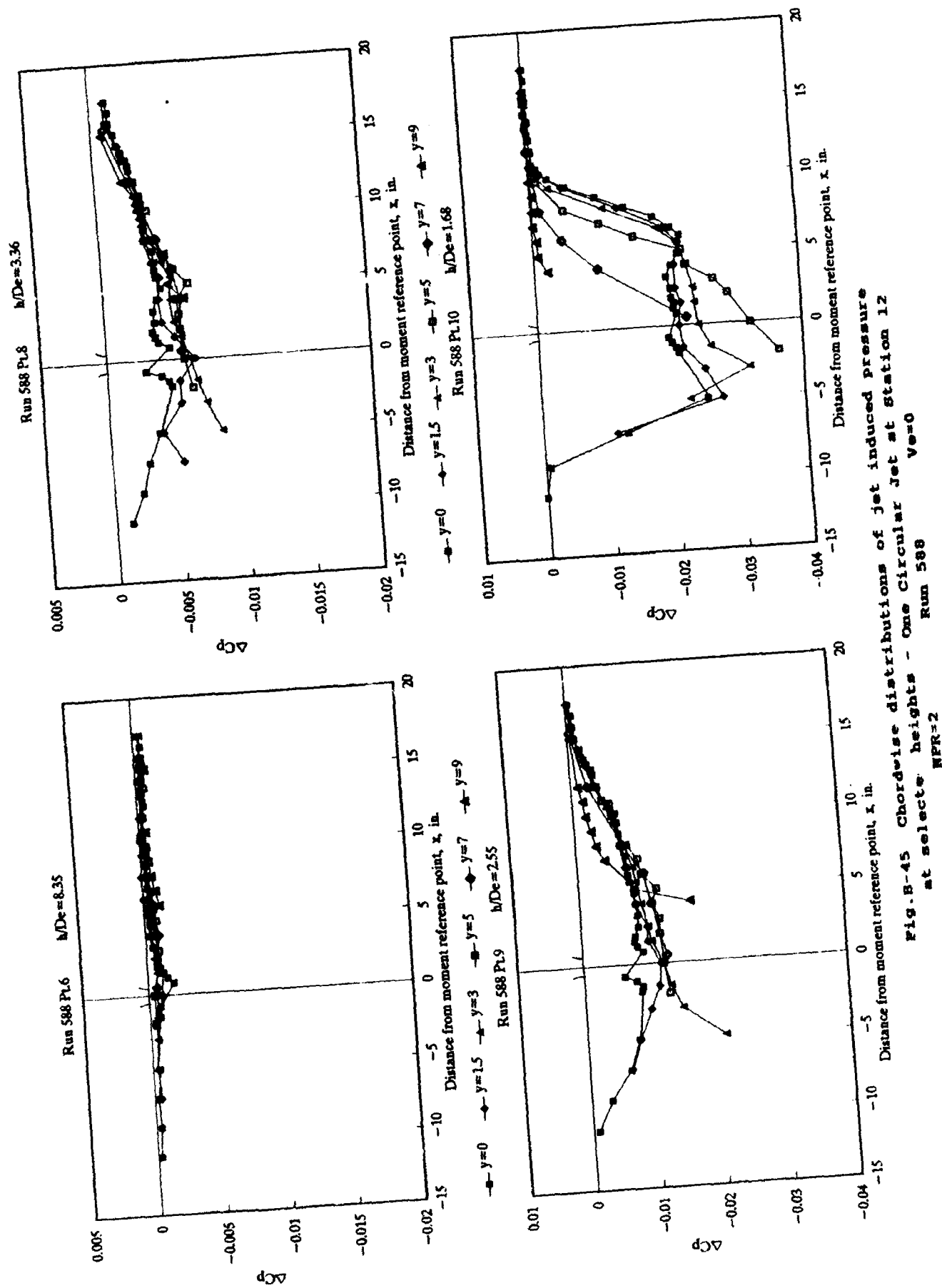


Fig. B-45 Chordwise distributions of jet induced pressure at select heights - One Circular Jet at Station 12  
Run 588  $V_e=0$   
NFR=2

Run 589  $ve=.02$ 

### Force and Moment Summary

	$h/D_0 =$	$1.0$
Balance	$dU =$	$-1.98$
Pressure	$dU =$	$-1.90$
Balance	$dM/D_0 =$	$1.78$
Pressure	$dM/D_0 =$	$1.57$



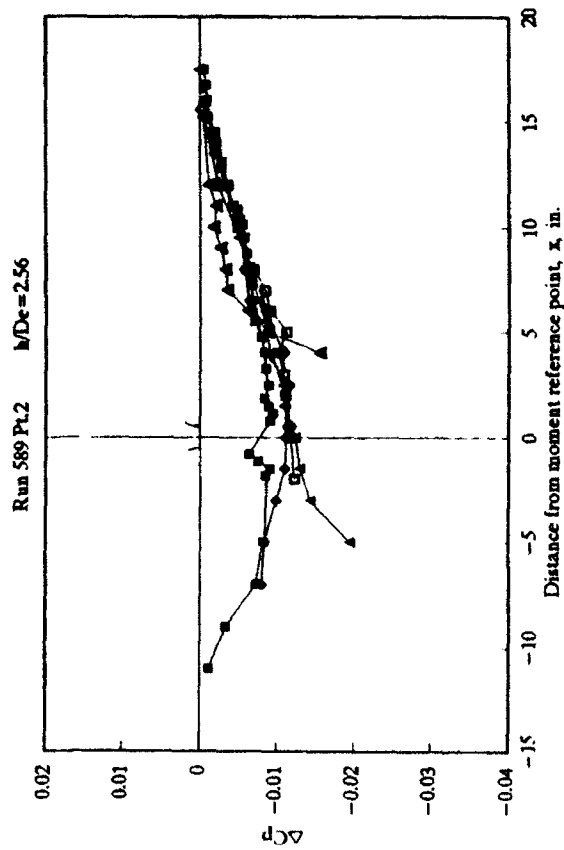
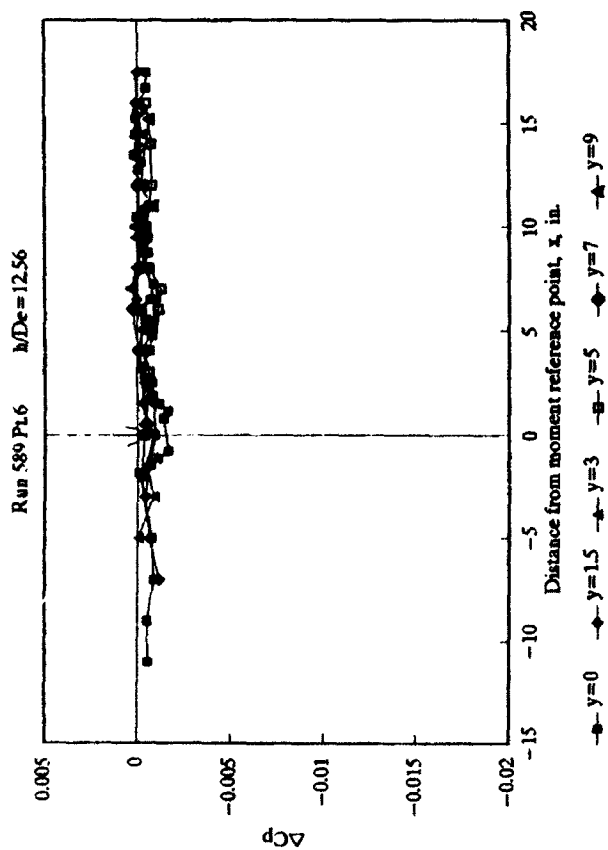
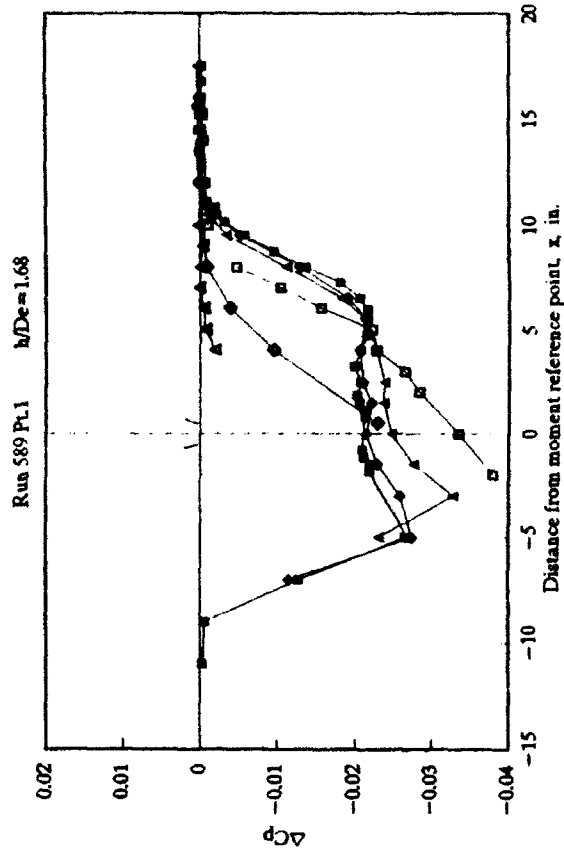
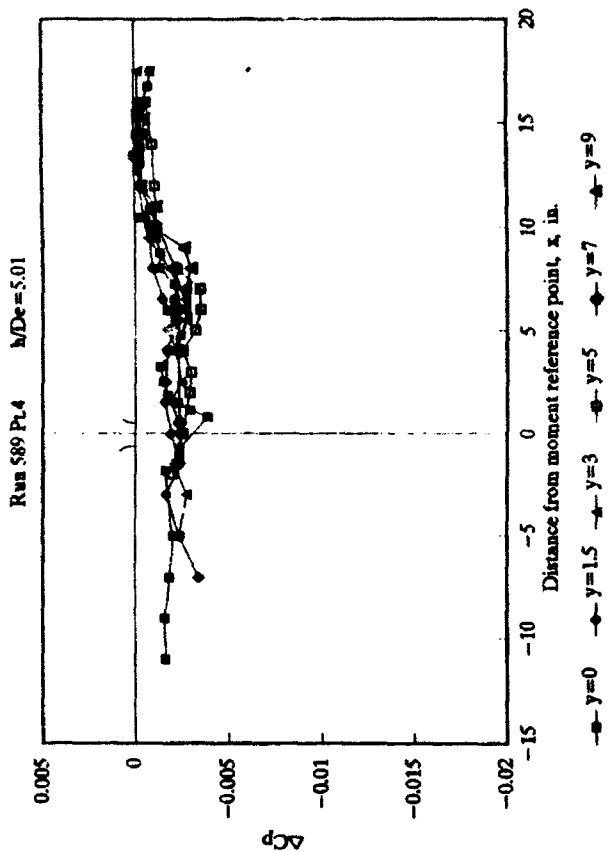


Fig. B-46 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 12  
MFR=2 Run 589  $Ve=.02$

TABLE B-47 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 12 - NPR=2

Run 590 Ve=0.4

Point h/D =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
h/D =	0.0000	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0016	0.0020	0.0024	0.0028	0.0032	0.0036	0.0040	0.0044	0.0048	0.0052	0.0056	0.0060	0.0064	0.0068	0.0072	0.0076	0.0080	0.0084	0.0088	0.0092	0.0096	0.0100	0.0104	0.0108	0.0112	0.0116	0.0120	0.0124	0.0128	0.0132	0.0136	0.0140	0.0144	0.0148	0.0152	0.0156	0.0160	0.0164	0.0168	0.0172	0.0176	0.0180	0.0184	0.0188	0.0192	0.0196	0.0200	0.0204	0.0208	0.0212	0.0216	0.0220	0.0224	0.0228	0.0232	0.0236	0.0240	0.0244	0.0248	0.0252	0.0256	0.0260	0.0264	0.0268	0.0272	0.0276	0.0280	0.0284	0.0288	0.0292	0.0296	0.0300	0.0304	0.0308	0.0312	0.0316	0.0320	0.0324	0.0328	0.0332	0.0336	0.0340	0.0344	0.0348	0.0352	0.0356	0.0360	0.0364	0.0368	0.0372	0.0376	0.0380	0.0384	0.0388	0.0392	0.0396	0.0400	0.0404	0.0408	0.0412	0.0416	0.0420	0.0424	0.0428	0.0432	0.0436	0.0440	0.0444	0.0448	0.0452	0.0456	0.0460	0.0464	0.0468	0.0472	0.0476	0.0480	0.0484	0.0488	0.0492	0.0496	0.0500	0.0504	0.0508	0.0512	0.0516	0.0520	0.0524	0.0528	0.0532	0.0536	0.0540	0.0544	0.0548	0.0552	0.0556	0.0560	0.0564	0.0568	0.0572	0.0576	0.0580	0.0584	0.0588	0.0592	0.0596	0.0600	0.0604	0.0608	0.0612	0.0616	0.0620	0.0624	0.0628	0.0632	0.0636	0.0640	0.0644	0.0648	0.0652	0.0656	0.0660	0.0664	0.0668	0.0672	0.0676	0.0680	0.0684	0.0688	0.0692	0.0696	0.0700	0.0704	0.0708	0.0712	0.0716	0.0720	0.0724	0.0728	0.0732	0.0736	0.0740	0.0744	0.0748	0.0752	0.0756	0.0760	0.0764	0.0768	0.0772	0.0776	0.0780	0.0784	0.0788	0.0792	0.0796	0.0800	0.0804	0.0808	0.0812	0.0816	0.0820	0.0824	0.0828	0.0832	0.0836	0.0840	0.0844	0.0848	0.0852	0.0856	0.0860	0.0864	0.0868	0.0872	0.0876	0.0880	0.0884	0.0888	0.0892	0.0896	0.0900	0.0904	0.0908	0.0912	0.0916	0.0920	0.0924	0.0928	0.0932	0.0936	0.0940	0.0944	0.0948	0.0952	0.0956	0.0960	0.0964	0.0968	0.0972	0.0976	0.0980	0.0984	0.0988	0.0992	0.0996	0.1000	0.1004	0.1008	0.1012	0.1016	0.1020	0.1024	0.1028	0.1032	0.1036	0.1040	0.1044	0.1048	0.1052	0.1056	0.1060	0.1064	0.1068	0.1072	0.1076	0.1080	0.1084	0.1088	0.1092	0.1096	0.1100	0.1104	0.1108	0.1112	0.1116	0.1120	0.1124	0.1128	0.1132	0.1136	0.1140	0.1144	0.1148	0.1152	0.1156	0.1160	0.1164	0.1168	0.1172	0.1176	0.1180	0.1184	0.1188	0.1192	0.1196	0.1200	0.1204	0.1208	0.1212	0.1216	0.1220	0.1224	0.1228	0.1232	0.1236	0.1240	0.1244	0.1248	0.1252	0.1256	0.1260	0.1264	0.1268	0.1272	0.1276	0.1280	0.1284	0.1288	0.1292	0.1296	0.1300	0.1304	0.1308	0.1312	0.1316	0.1320	0.1324	0.1328	0.1332	0.1336	0.1340	0.1344	0.1348	0.1352	0.1356	0.1360	0.1364	0.1368	0.1372	0.1376	0.1380	0.1384	0.1388	0.1392	0.1396	0.1400	0.1404	0.1408	0.1412	0.1416	0.1420	0.1424	0.1428	0.1432	0.1436	0.1440	0.1444	0.1448	0.1452	0.1456	0.1460	0.1464	0.1468	0.1472	0.1476	0.1480	0.1484	0.1488	0.1492	0.1496	0.1500	0.1504	0.1508	0.1512	0.1516	0.1520	0.1524	0.1528	0.1532	0.1536	0.1540	0.1544	0.1548	0.1552	0.1556	0.1560	0.1564	0.1568	0.1572	0.1576	0.1580	0.1584	0.1588	0.1592	0.1596	0.1600	0.1604	0.1608	0.1612	0.1616	0.1620	0.1624	0.1628	0.1632	0.1636	0.1640	0.1644	0.1648	0.1652	0.1656	0.1660	0.1664	0.1668	0.1672	0.1676	0.1680	0.1684	0.1688	0.1692	0.1696	0.1700	0.1704	0.1708	0.1712	0.1716	0.1720	0.1724	0.1728	0.1732	0.1736	0.1740	0.1744	0.1748	0.1752	0.1756	0.1760	0.1764	0.1768	0.1772	0.1776	0.1780	0.1784	0.1788	0.1792	0.1796	0.1800	0.1804	0.1808	0.1812	0.1816	0.1820	0.1824	0.1828	0.1832	0.1836	0.1840	0.1844	0.1848	0.1852	0.1856	0.1860	0.1864	0.1868	0.1872	0.1876	0.1880	0.1884	0.1888	0.1892	0.1896	0.1900	0.1904	0.1908	0.1912	0.1916	0.1920	0.1924	0.1928	0.1932	0.1936	0.1940	0.1944	0.1948	0.1952	0.1956	0.1960	0.1964	0.1968	0.1972	0.1976	0.1980	0.1984	0.1988	0.1992	0.1996	0.2000	0.2004	0.2008	0.2012	0.2016	0.2020	0.2024	0.2028	0.2032	0.2036	0.2040	0.2044	0.2048	0.2052	0.2056	0.2060	0.2064	0.2068	0.2072	0.2076	0.2080	0.2084	0.2088	0.2092	0.2096	0.2100	0.2104	0.2108	0.2112	0.2116	0.2120	0.2124	0.2128	0.2132	0.2136	0.2140	0.2144	0.2148	0.2152	0.2156	0.2160	0.2164	0.2168	0.2172	0.2176	0.2180	0.2184	0.2188	0.2192	0.2196	0.2200	0.2204	0.2208	0.2212	0.2216	0.2220	0.2224	0.2228	0.2232	0.2236	0.2240	0.2244	0.2248	0.2252	0.2256	0.2260	0.2264	0.2268	0.2272	0.2276	0.2280	0.2284	0.2288	0.2292	0.2296	0.2300	0.2304	0.2308	0.2312	0.2316	0.2320	0.2324	0.2328	0.2332	0.2336	0.2340	0.2344	0.2348	0.2352	0.2356	0.2360	0.2364	0.2368	0.2372	0.2376	0.2380	0.2384	0.2388	0.2392	0.2396	0.2400	0.2404	0.2408	0.2412	0.2416	0.2420	0.2424	0.2428	0.2432	0.2436	0.2440	0.2444	0.2448	0.2452	0.2456	0.2460	0.2464	0.2468	0.2472	0.2476	0.2480	0.2484	0.2488	0.2492	0.2496	0.2500	0.2504	0.2508	0.2512	0.2516	0.2520	0.2524	0.2528	0.2532	0.2536	0.2540	0.2544	0.2548	0.2552	0.2556	0.2560	0.2564	0.2568	0.2572	0.2576	0.2580	0.2584	0.2588	0.2592	0.2596	0.2600	0.2604	0.2608	0.2612	0.2616	0.2620	0.2624	0.2628	0.2632	0.2636	0.2640	0.2644	0.2648	0.2652	0.2656	0.2660	0.2664	0.2668	0.2672	0.2676	0.2680	0.2684	0.2688	0.2692	0.2696	0.2700	0.2704	0.2708	0.2712	0.2716	0.2720	0.2724	0.2728	0.2732	0.2736	0.2740	0.2744	0.2748	0.2752	0.2756	0.2760	0.2764	0.2768	0.2772	0.2776	0.2780	0.2784	0.2788	0.2792	0.2796	0.2800	0.2804	0.2808	0.2812	0.2816	0.2820	0.2824	0.2828	0.2832	0.2836	0.2840	0.2844	0.2848	0.2852	0.2856	0.2860	0.2864	0.2868	0.2872	0.2876	0.2880	0.2884	0.2888	0.2892	0.2896	0.2900	0.2904	0.2908	0.2912	0.2916	0.2920	0.2924	0.2928	0.2932	0.2936	0.2940	0.2944	0.2948	0.2952	0.2956	0.2960	0.2964	0.2968	0.2972	0.2976	0.2980	0.2984	0.2988	0.2992	0.2996	0.3000	0.3004	0.3008	0.3012	0.3016	0.3020	0.3024	0.3028	0.3032	0.3036	0.3040	0.3044	0.3048	0.3052	0.3056	0.3060	0.3064	0.3068	0.3072	0.3076	0.3080	0.3084	0.3088	0.3092	0.3096	0.3100	0.3104	0.3108	0.3112	0.3116	0.3120	0.3124	0.3128	0.3132	0.3136	0.3140	0.3144	0.3148	0.3152	0.3156	0.3160	0.3164	0.3168	0.3172	0.3176	0.3180	0.3184	0.3188	0.3192	0.3196	0.3200	0.3204	0.3208	0.3212	0.3216	0.3220	0.3224	0.3228	0.3232	0.3236	0.3240	0.3244	0.3248	0.3252	0.3256	0.3260	0.3264	0.3268	0.3272	0.3276	0.3280	0.3284	0.3288	0.3292	0.3296	0.3300	0.3304	0.3308	0.3312	0.3316	0.3320	0.3324	0.3328	0.3332	0.3336	0.3340	0.3344	0.3348	0.3352	0.3356	0.3360	0.3364	0.3368	0.3372	0.3376	0.3380	0.3384	0.3388	0.3392	0.3396	0.3400	0.3404	0.3408	0.3412	0.3416	0.3420	0.3424	0.3428	0.3432	0.3436	0.3440	0.3444	0.3448	0.3452	0.3456	0.3460	0.3464	0.3468	0.3472	0.3476	0.3480	0.3484	0.3488	0.3492	0.3496	0.3500	0.3504	0.3508	0.3512	0.3516	0.3520	0.3524	0.3528	0.3532	0.3536	0.3540	0.3544	0.3548	0.3552	0.3556	0.3560	0.3564	0.3568	0.3572	0.3576	0.3580	0.3584	0.3588	0.3592	0.3596	0.3600	0.3604	0.3608	0.3612	0.3616	0.3620	0.3624	0.3628	0.3632	0.3636	0.3640	0.3644	0.3648	0.3652	0.3656	0.3660	0.3664	0.3668	0.3672	0.3676	0.3680	0.3684	0.3688	0.3692	0.3696	0.3700	0.3704	0.3708	0.3712	0.3716	0.3720	0.3724	0.3728	0.3732	0.3736	0.3740	0.3744	0.3748	0.3752	0.3756	0.3760	0.3764	0.3768	0.3772	0.3776	0.3780	0.3784	0.3788	0.3792	0.3796	0.3800	0.3804	0.3808	0.3812	0.3816	0.3820	0.3824	0.3828	0.3832	0.3836	0.3840	0.3844	0.3848	0.3852	0.3856	0.3860	0.3864	0.3868	0.3872	0.3876	0.3880	0.3884	0.3888	0.3892	0.3896	0.3900	0.3904	0.3908	0.3912	0.3916	0.3920	0.3924	0.3928	0.3932	0.3936	0.3940	0.3944	0.3948	0.3952	0.3956	0.3960	0.3964	0.3968	0.3972	0.3976	0.3980	0.3984	0.3988	0.3992	0.3996	0.4000	0.4004	0.4008	0.4012	0.4016	0.4020	0.4024	0.4028	0.4032	0.4036	0.4040	0.4044	0.4048	0.4052	0.4056	0.4060	0.4064	0.4068	0.4072	0.4076	0.4080	0.4084	0.4088	0.4092	0.4096	0.4100	0.4104	0.4108	0.4112	0.4116	0.4120	0.4124	0.4128	0.4132	0.4136	0.4140	0.4144	0.4148	0.4152	0.4156	0.4160	0.4164	0.4168	0.4

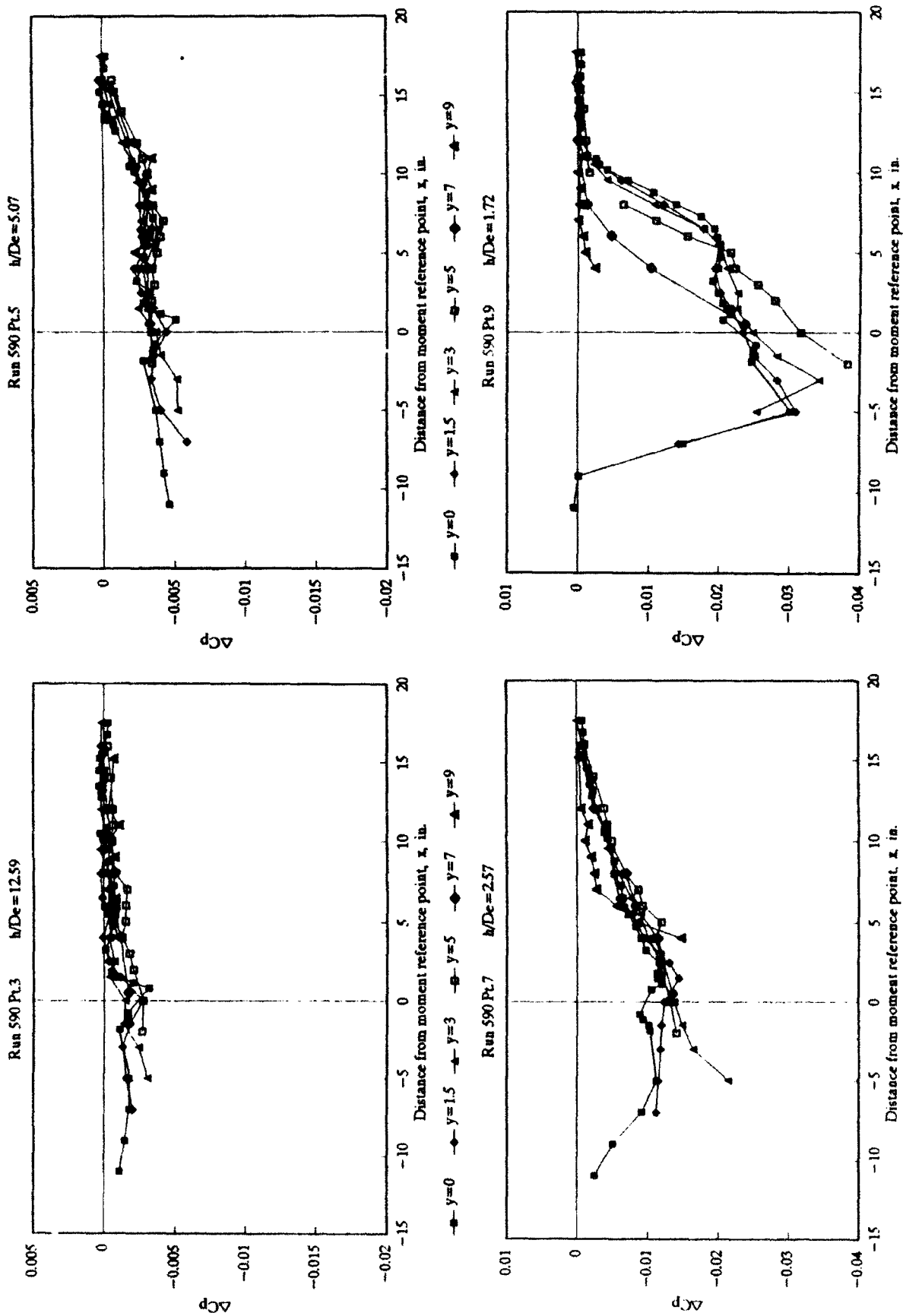


Fig.B-47 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 12  
NPR=2 Run 590  $V_e=.04$

TABLE B-48 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 12 - NPR=2  
Run 591 Ve=.06

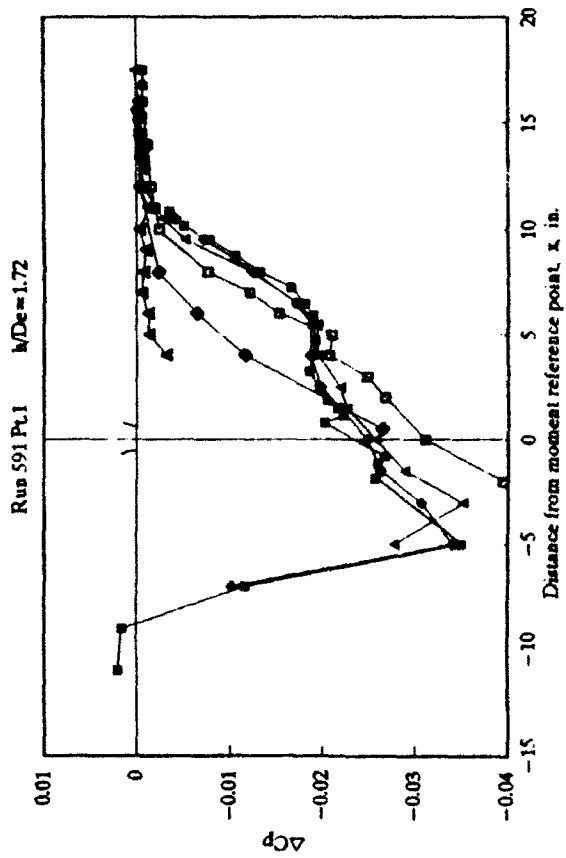
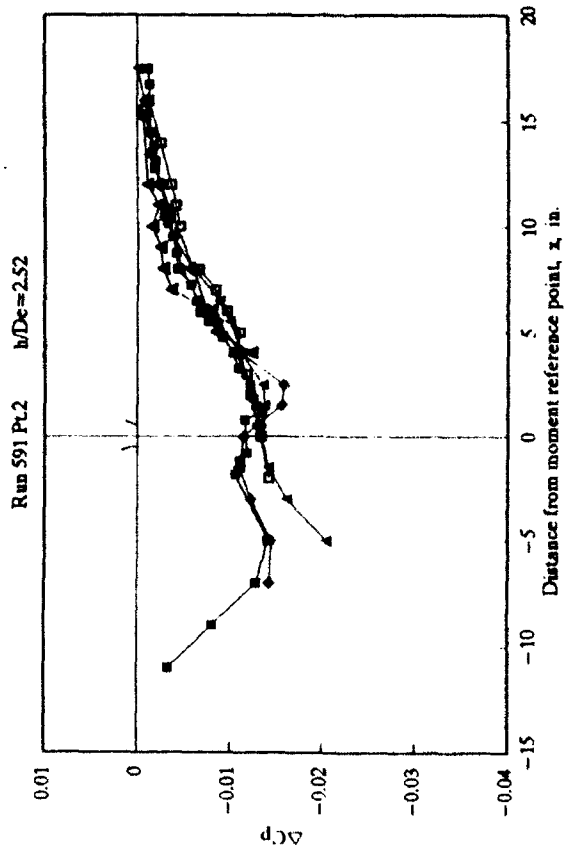
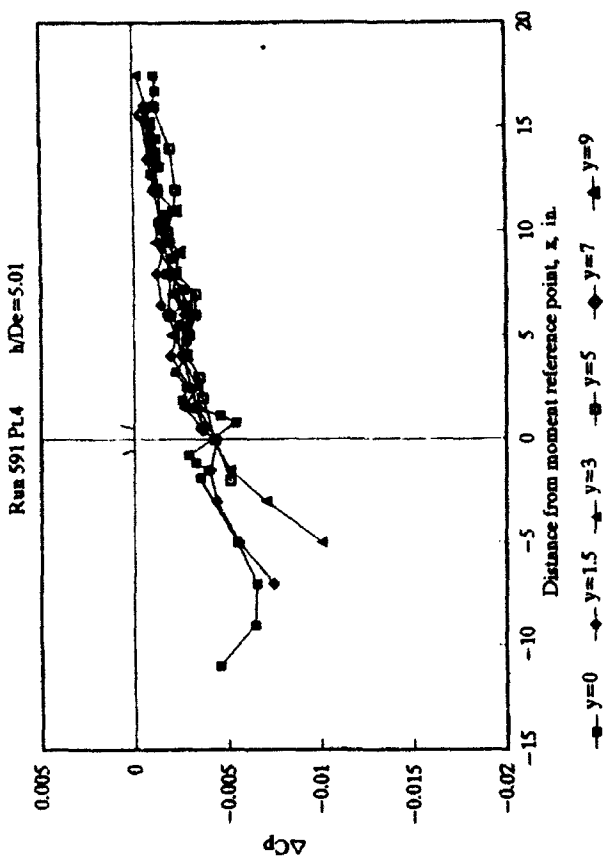
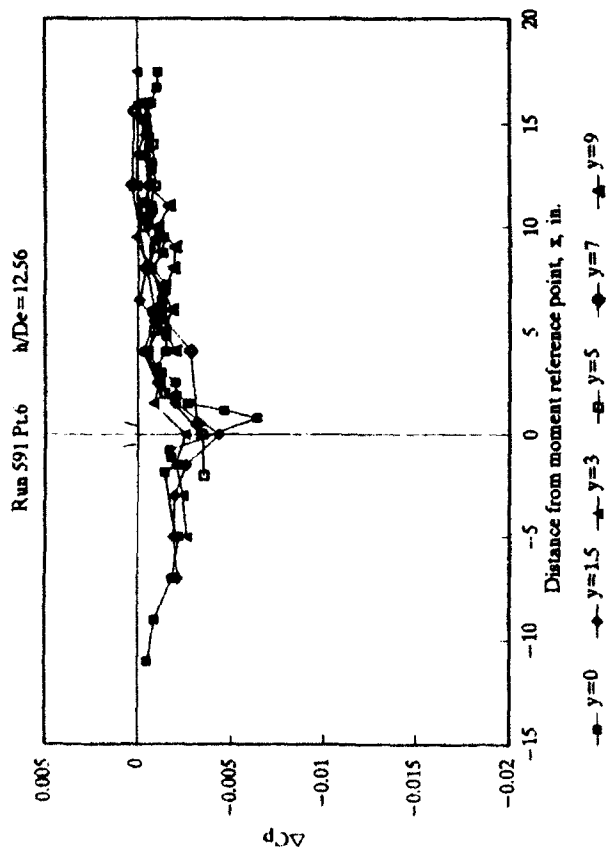


Fig. B-48 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 12  
NPR=2 Run 591  $Ve=.06$

Run 592  $v_e = .08$ 

### Force and Moment Summary

	Balance	dL/T =	R/D =
Pressure		dL/T =	
Balance		dM/TD =	
Pressure		dM/TD =	

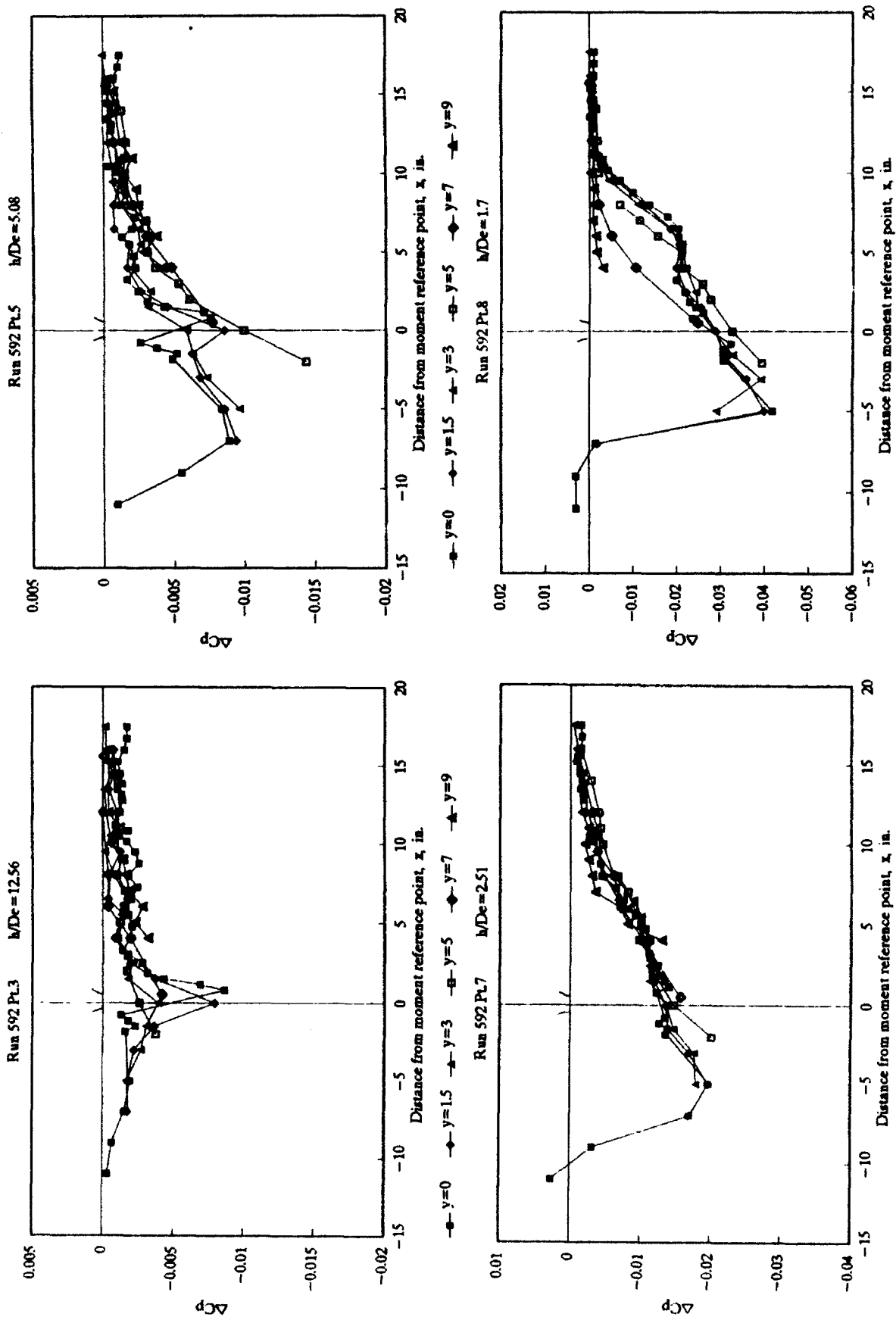


Fig.B-49 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 12

NFR=2 Run 592 Ver=.08

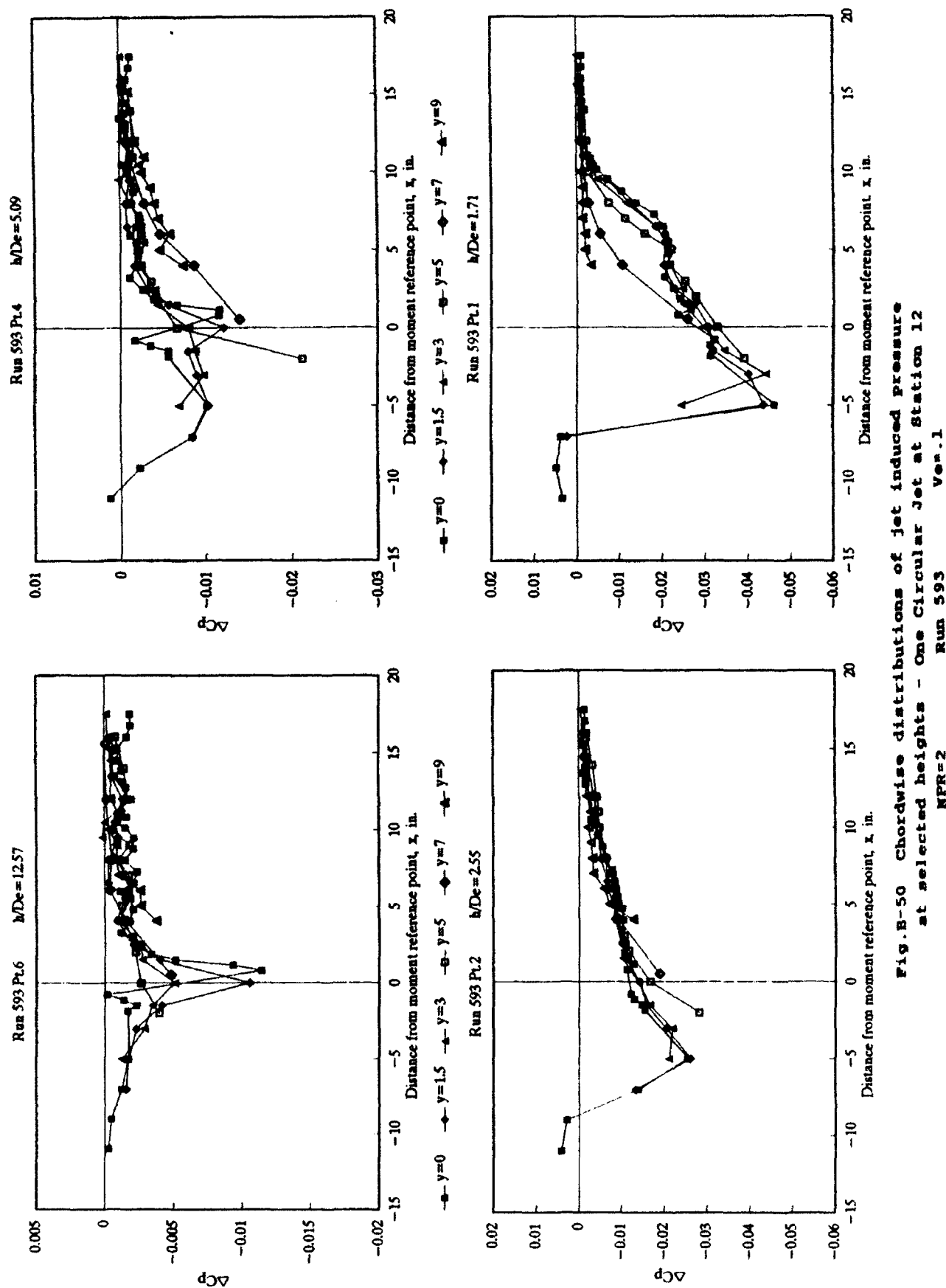
TABLE B-50 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 12 - NPR=2  
Run 593  $Ve=.1$

Point N/E =	x	1	2	3	4	5	6	7	8	Point N/E =	y	1	2	3	4	5	6	7	8	Point N/E =	x	1	2	3	4	5	6	7	8
0	-11	0.0034	0.0042	0.0036	0.0013	0.0001	-0.0002	-0.0002	-0.0003	3	-1.5	-0.0344	-0.0186	-0.0120	-0.0067	-0.0051	-0.0034	-0.0028	-0.0032	3	-1.5	-0.0344	-0.0186	-0.0120	-0.0067	-0.0051	-0.0034	-0.0028	-0.0032
0	-9	0.0048	0.0029	-0.0012	-0.0023	-0.0006	-0.0004	-0.0004	-0.0008	3	0	-0.0297	-0.0139	-0.0106	-0.0079	-0.0067	-0.0051	-0.0041	-0.0046	3	0	-0.0297	-0.0139	-0.0106	-0.0079	-0.0067	-0.0051	-0.0041	-0.0046
0	-7	0.0036	-0.0139	-0.0152	-0.0084	-0.0021	-0.0011	-0.0011	-0.0013	3	1.5	-0.0280	-0.0103	-0.0088	-0.0064	-0.0054	-0.0039	-0.0027	-0.0019	3	1.5	-0.0280	-0.0103	-0.0088	-0.0064	-0.0054	-0.0039	-0.0027	-0.0019
0	-5	-0.0463	-0.0265	-0.0180	-0.0101	-0.0031	-0.0017	-0.0016	-0.0018	3	2.5	-0.0248	-0.0104	-0.0082	-0.0064	-0.0054	-0.0039	-0.0028	-0.0019	3	2.5	-0.0248	-0.0104	-0.0082	-0.0064	-0.0054	-0.0039	-0.0028	-0.0019
0	-3	-0.0012	-0.0005	-0.0005	-0.0003	-0.0003	-0.0004	-0.0002	-0.0002	3	4	-0.0218	-0.0087	-0.0044	-0.0023	-0.0016	-0.0011	-0.0005	-0.0006	3	4	-0.0218	-0.0087	-0.0044	-0.0023	-0.0016	-0.0011	-0.0005	-0.0006
0	-1.86	-0.0312	-0.0185	-0.0102	-0.0066	-0.0030	-0.0017	-0.0013	-0.0016	3	8.5	-0.0206	-0.0087	-0.0047	-0.0028	-0.0022	-0.0018	-0.0013	-0.0016	3	8.5	-0.0206	-0.0087	-0.0047	-0.0028	-0.0022	-0.0018	-0.0013	-0.0016
0	-1.5	-0.0316	-0.0147	-0.0097	-0.0066	-0.0034	-0.0023	-0.0020	-0.0022	3	8.5	-0.0185	-0.0082	-0.0048	-0.0024	-0.0022	-0.0018	-0.0015	-0.0016	3	8.5	-0.0185	-0.0082	-0.0048	-0.0024	-0.0022	-0.0018	-0.0015	-0.0016
0	-1.15	-0.0311	-0.0130	-0.0078	-0.0036	-0.0020	-0.0011	-0.0011	-0.0012	3	8	-0.0160	-0.0063	-0.0032	-0.0021	-0.0013	-0.0008	-0.0008	-0.0006	3	8	-0.0160	-0.0063	-0.0032	-0.0021	-0.0013	-0.0008	-0.0008	-0.0006
0	-0.8	-0.0322	-0.0122	-0.0081	-0.0036	-0.0020	-0.0001	-0.0001	-0.0001	3	8.5	-0.0160	-0.0063	-0.0032	-0.0021	-0.0013	-0.0008	-0.0008	-0.0006	3	8.5	-0.0160	-0.0063	-0.0032	-0.0021	-0.0013	-0.0008	-0.0008	-0.0006
0	0.8	-0.0236	-0.0112	-0.0097	-0.0114	-0.0126	-0.0114	-0.0110	-0.0106	3	10.5	-0.0031	-0.0036	-0.0022	-0.0019	-0.0014	-0.0009	-0.0004	-0.0004	3	10.5	-0.0031	-0.0036	-0.0022	-0.0019	-0.0014	-0.0009	-0.0004	-0.0004
0	1.15	-0.0367	-0.0129	-0.0082	-0.0116	-0.0111	-0.0083	-0.0069	-0.0067	3	12	-0.0018	-0.0025	-0.0019	-0.0002	-0.0002	-0.0004	-0.0019	-0.0012	3	12	-0.0018	-0.0025	-0.0019	-0.0002	-0.0002	-0.0004	-0.0019	-0.0012
0	1.5	-0.0256	-0.0115	-0.0048	-0.0066	-0.0064	-0.0081	-0																					

### Force and Moment Summary

	n,De =	1.71
Balance	dL T =	- 2.123
Pressure	dL T =	- 2.192
Balance	dM/TDe =	2.040
Pressure	dM/TDe =	2.916







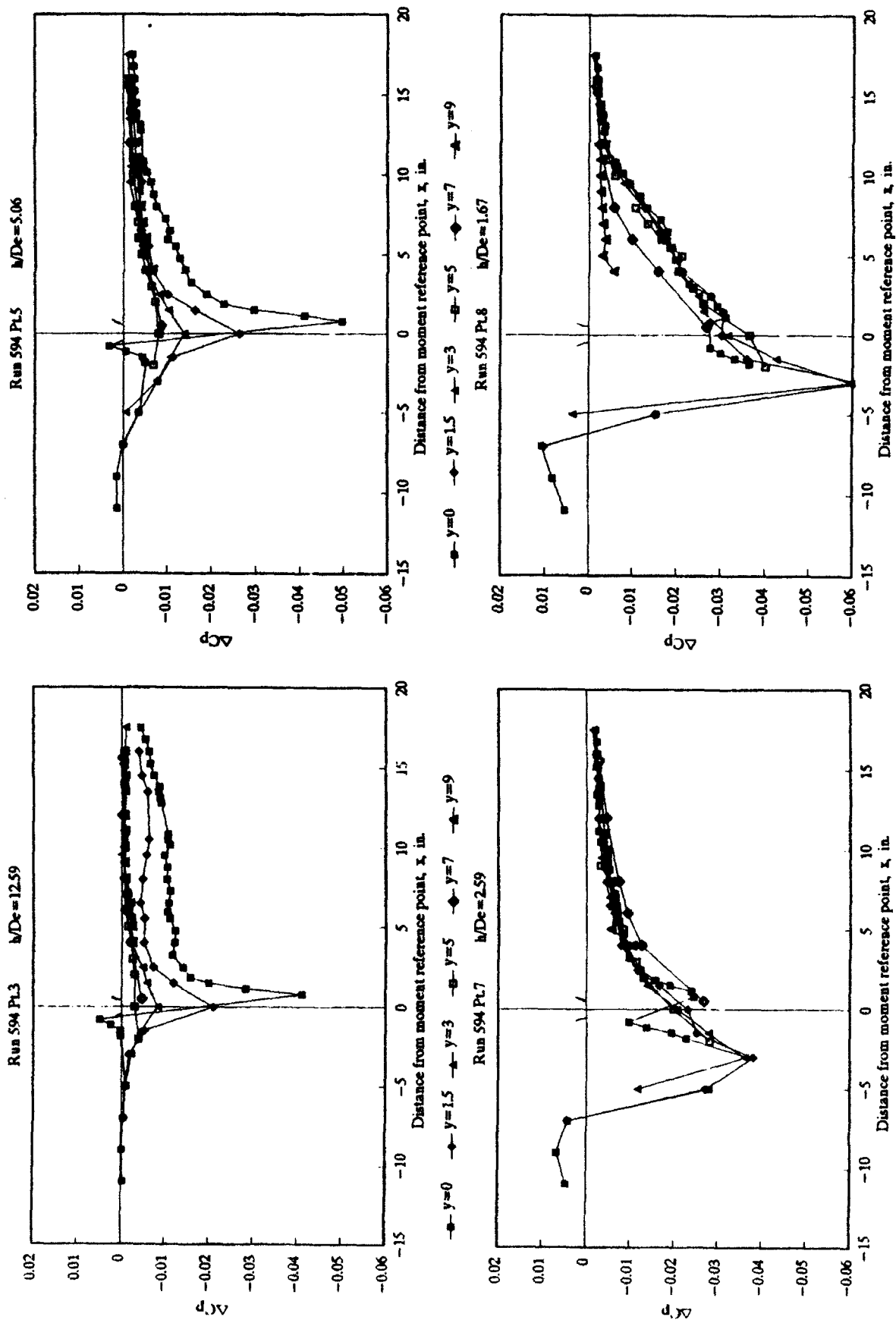


Fig. B-51 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 12  
NPR=2 Run 594  $V_e = .15$

TABLE B-52 JET INDUCED PRESSURE INCREMENTS  
One Circular Jet at Station 12 - NPR=2

Run 595 Ve=2

Y	Point N/D=	1		2		3		4		5		6		7		8	
		X	ΔCp	X	ΔCp	X	ΔCp	X	ΔCp	X	ΔCp	X	ΔCp	X	ΔCp	X	ΔCp
0	-11	0.0084	0.0044	0.0035	0.0005	-0.0011	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015
0	-9	0.0098	0.0069	0.0052	0.0012	-0.0007	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011	-0.0011
0	-7	0.0135	0.0068	0.0057	0.0019	0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-5	0.0118	-0.0027	-0.0028	0.0015	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0	-3	-0.0064	-0.0035	-0.0033	-0.0031	-0.0038	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032
0	-1.85	-0.0574	-0.0333	-0.0162	0.0019	0.0025	0.0022	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023
0	-1.5	-0.0456	-0.0227	-0.0086	0.0033	0.0042	0.0039	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040
0	-1.15	-0.0365	-0.0115	-0.0017	0.0076	0.0083	0.0079	0.0081	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079
0	-0.8	-0.0275	-0.0022	0.0071	0.0130	0.0132	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131
0	0.8	-0.0407	-0.0366	-0.0874	-0.0609	-0.0750	-0.0731	-0.0731	-0.0731	-0.0731	-0.0731	-0.0731	-0.0731	-0.0731	-0.0731	-0.0731	-0.0731
0	1.15	-0.0437	-0.0446	-0.0811	-0.0703	-0.0670	-0.0674	-0.0674	-0.0674	-0.0674	-0.0674	-0.0674	-0.0674	-0.0674	-0.0674	-0.0674	-0.0674
0	1.5	-0.0401	-0.0393	-0.0483	-0.0443	-0.0420	-0.0412	-0.0412	-0.0412	-0.0412	-0.0412	-0.0412	-0.0412	-0.0412	-0.0412	-0.0412	-0.0412
0	1.85	-0.0362	-0.0321	-0.0376	-0.0316	-0.0294	-0.0277	-0.0277	-0.0277	-0.0277	-0.0277	-0.0277	-0.0277	-0.0277	-0.0277	-0.0277	-0.0277
0	2.5	-0.0331	-0.0224	-0.0232	-0.0225	-0.0196	-0.0180	-0.0180	-0.0180	-0.0180	-0.0180	-0.0180	-0.0180	-0.0180	-0.0180	-0.0180	-0.0180
0	3.25	-0.0292	-0.0139	-0.0143	-0.0176	-0.0145	-0.0113	-0.0113	-0.0113	-0.0113	-0.0113	-0.0113	-0.0113	-0.0113	-0.0113	-0.0113	-0.0113
0	4	-0.0262	-0.0106	-0.0111	-0.0161	-0.0133	-0.0099	-0.0099	-0.0099	-0.0099	-0.0099	-0.0099	-0.0099	-0.0099	-0.0099	-0.0099	-0.0099
0	4.75	-0.0229	-0.0085	-0.0085	-0.0142	-0.0117	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081	-0.0081
0	5.5	-0.0202	-0.0071	-0.0080	-0.0125	-0.0103	-0.0069	-0.0069	-0.0069	-0.0069	-0.0069	-0.0069	-0.0069	-0.0069	-0.0069	-0.0069	-0.0069
0	5.98	-0.0182	-0.0066	-0.0085	-0.0137	-0.0120	-0.0083	-0.0083	-0.0083	-0.0083	-0.0083	-0.0083	-0.0083	-0.0083	-0.0083	-0.0083	-0.0083
0	6.5	-0.0161	-0.0055	-0.0070	-0.0110	-0.0085	-0.0066	-0.0066	-0.0066	-0.0066	-0.0066	-0.0066	-0.0066	-0.0066	-0.0066	-0.0066	-0.0066
0	7.25	-0.0149	-0.0052	-0.0065	-0.0102	-0.0086	-0.0065	-0.0065	-0.0065	-0.0065	-0.0065	-0.0065	-0.0065	-0.0065	-0.0065	-0.0065	-0.0065
0	8	-0.0144	-0.0051	-0.0063	-0.0096	-0.0076	-0.0055	-0.0055	-0.0055	-0.0055	-0.0055	-0.0055	-0.0055	-0.0055	-0.0055	-0.0055	-0.0055
0	8.75	-0.0131	-0.0050	-0.0060	-0.0080	-0.0078	-0.0059	-0.0059	-0.0059	-0.0059	-0.0059	-0.0059	-0.0059	-0.0059	-0.0059	-0.0059	-0.0059
0	9.5	-0.0115	-0.0046	-0.0047	-0.0072	-0.0073	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056
0	10.15	-0.0094	-0.0040	-0.0045	-0.0066	-0.0070	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052	-0.0052
0	10.5	-0.0084	-0.0033	-0.0042	-0.0064	-0.0067	-0.0048	-0.0048	-0.0048	-0.0048	-0.0048	-0.0048	-0.0048	-0.0048	-0.0048	-0.0048	-0.0048
0	10.85	-0.0068	-0.0038	-0.0040	-0.0061	-0.0063	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046
0	11.2	-0.0045	-0.0047	-0.0047	-0.0051	-0.0058	-0.0049	-0.0049	-0.0049	-0.0049	-0.0049	-0.0049	-0.0049	-0.0049	-0.0049	-0.0049	-0.0049
0	12.8	-0.0080	-0.0038	-0.0046	-0.0064	-0.0075	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056	-0.0056
0	13.15	-0.0081	-0.0032	-0.0035	-0.0048	-0.0062	-0.0043	-0.0043	-0.0043	-0.0043	-0.0043	-0.0043	-0.0043	-0.0043	-0.0043	-0.0043	-0.0043
0	13.5	-0.0053	-0.0028	-0.0032	-0.0046	-0.0061	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040
0	13.85	-0.0057	-0.0032	-0.0033	-0.0047	-0.0061	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040
0	14.5	-0.0053	-0.0031	-0.0030	-0.0042	-0.0053	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042	-0.0042
0	15.25	-0.0046	-0.0028	-0.0028	-0.0037	-0.0049	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040	-0.0040
0	16	-0.0041	-0.0027	-0.0024	-0.0033	-0.0046	-0.0037	-0.0037	-0.0037	-0.0037	-0.0037	-0.0037	-0.0037	-0.0037	-0.0037	-0.0037	-0.0037
0	16.75	-0.0036	-0.0026	-0.0023	-0.0033	-0.0045	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0035
0	17.5	-0.0027	-0.0023	-0.0020	-0.0028	-0.0039	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027
0.8	0	-0.0371	-0.0432	-0.0684	-0.1014	-0.0924	-0.0842	-0.0824	-0.0824	-0.0824	-0.0824	-0.0824	-0.0824	-0.0824	-0.0824	-0.0824	-0.0824
0.8	12	0.0347	0.0376	0.0389	0.0403	0.0415	0.0425	0.0434	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445
1.5	-7	0.0128	0.0060	0.0064	0.0017	0.0008	0.0000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
1.5	-5	0.0121	-0.0019	-0.0023	0.0006	-0.0002	-0.0006	-0.0007	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
1.5	-3	-0.0345	-0.0433	-0.0219	-0.0014	-0.0010	-0.0018	-0.0018	-0.0018	-0.0018	-0.0018	-0.0018	-0.0018	-0.0018	-0.0018	-0.0018	-0.0018
1.5	-1.5	-0.0582	-0.0364	-0.0242	-0.0082	-0.0064	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046	-0.0046
1.5	0	-0.0410	-0.0307	-0.0365	-0.0371	-0.0352	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362	-0.0362
1.5	1.5	-0.0344	-0.0281	-0.0278	-0.0244	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236	-0.0236
1.5	2.5	-0.0299	-0.0208	-0.0166	-0.0150	-0.0106	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116	-0.0116
1.5	4	-0.0246	-0.0110	-0.0108	-0.0100	-0.0097	-0.0064	-0.0067	-0.0067	-0.0067	-0.0067	-0.0067	-0.0067	-0.0067	-0.0067	-0.0067	-0.0067
1.5	5.5	-0.0205	-0.0078	-0.0094	-0.0087	-0.0060	-0.0061	-0.0061	-0.0061	-0.0061	-0.0061	-0.0061	-0.0061	-0.0061	-0.0061	-0.0061	-0.0061
1.5	6.5	-0.0189	-0.0066	-0.0072	-0.0070	-0.0070	-0.0039	-0.0039	-0.0039	-0.0039	-0.0039	-0.0039	-0.0039	-0.0039	-0.0039	-0.0039	-0.0039
1.5	8	-0.0136	-0.0045	-0.0062	-0.0069	-0.0040	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030	-0.0030
1.5	9.5	-0.0111	-0.0046	-0.0047	-0.0061	-0.0044	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036	-0.0036
1.5	10.5	-0.0088	-0.0040	-0.0038	-0.0058	-0.0040	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032
1.5	12	-0.0044	-0.0047	-0.0048	-0.0052	-0.0056	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050	-0.0050
1.5	13.5	-0.0059	-0.0029	-0.0033	-0.0040	-0.0044	-0.0020	-0.0020	-0.0020	-0.0020	-0.0020	-0.0020	-0.0020	-0.0020	-0.0020	-0.0020	-0.0020
1.5	14.5	-0.0050	-0.0029	-0.0026	-0.0039	-0.0040	-0.0031	-0.0031	-0.0031	-0.0031	-0.0031	-0.0031	-0.0031	-0.0031	-0.0031	-0.0031	-0.0031
1.5	16	-0.0042	-0.0028	-0.0028	-0.0035	-0.0041	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032	-0.0032
1.5	17.5	-0.0027	-0.0027	-0.0029	-0.0033	-0.0038	-0.0033	-0.0033	-0.0033	-0.0033	-0.0033	-0.0033	-0.0033	-0.0033	-0.0033	-0.0033	-0.0033
3	-5	-0.0240	0.0095	0.0052	0.0009	-0.0023	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034	-0.0034
3	-3	-0.0377	-0.0312	-0.0168	-0.0014	-0.0013	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016

Force and Moment Summary

Point	1	2	3	4	5	6	7	8
N/D=	1.72	2.49	3.4	5.08	8.36	12.53	16.71	35.29
Balance	-0.027	-1.543	-1.025	-0.837	-0.840	-0.892	-0.751	-0.739
dL/T	-2.836	-1.716	-1.452	-1.047	-0.863	-0.828	-0.828	-0.816
Pressure	3.853	1.432	0.610	0.450	-1.032	-0.822	-0.864	-0.864
dM/TDe	8.955	5.801	5.458	4.884	3.325	3.009	2.866	2.805
Pressure	dM/TDe							

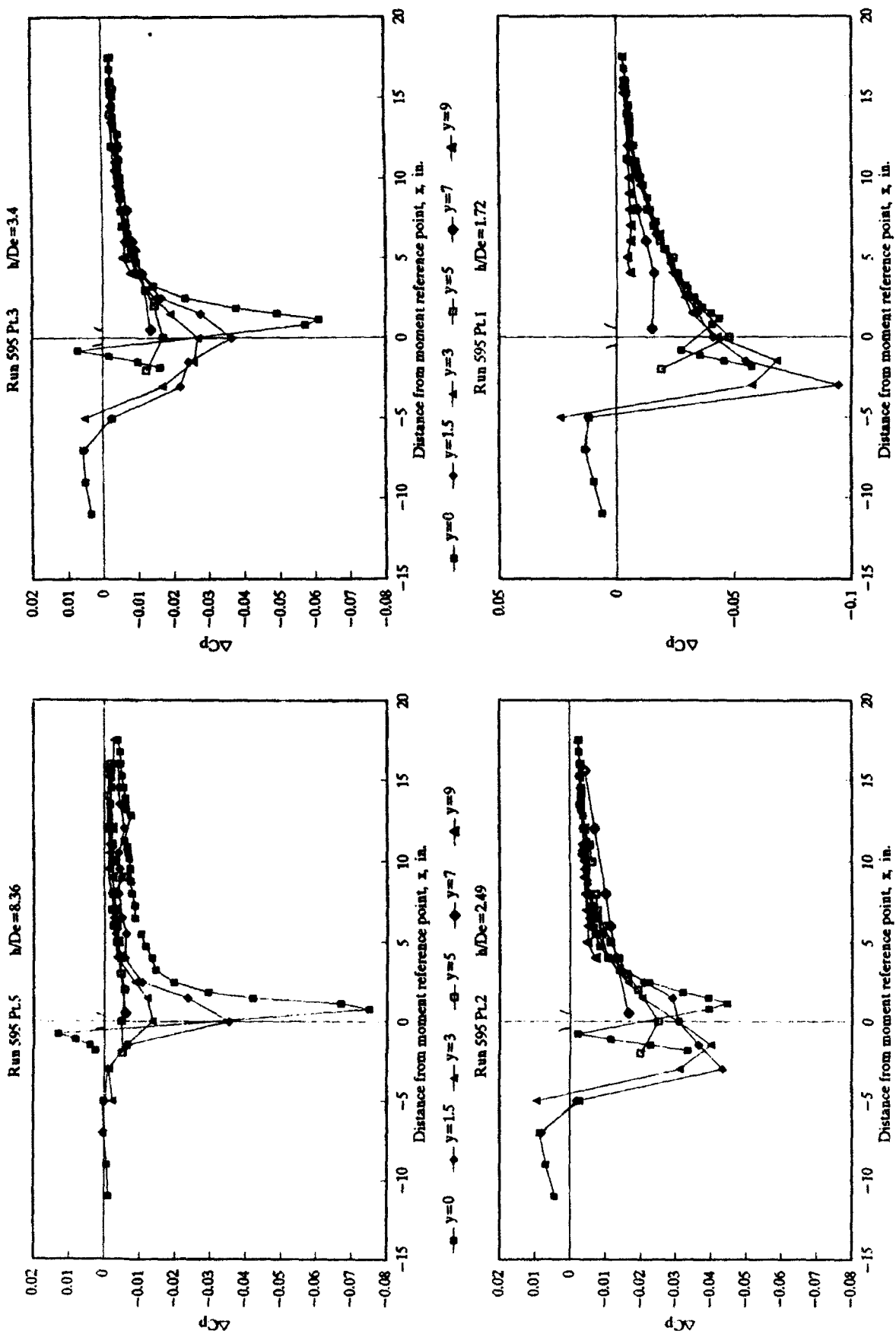


Fig.B-52 Chordwise distributions of jet induced pressure  
at selected heights - One Circular Jet at Station 12  
NPR=2 Run 595 Ver.2



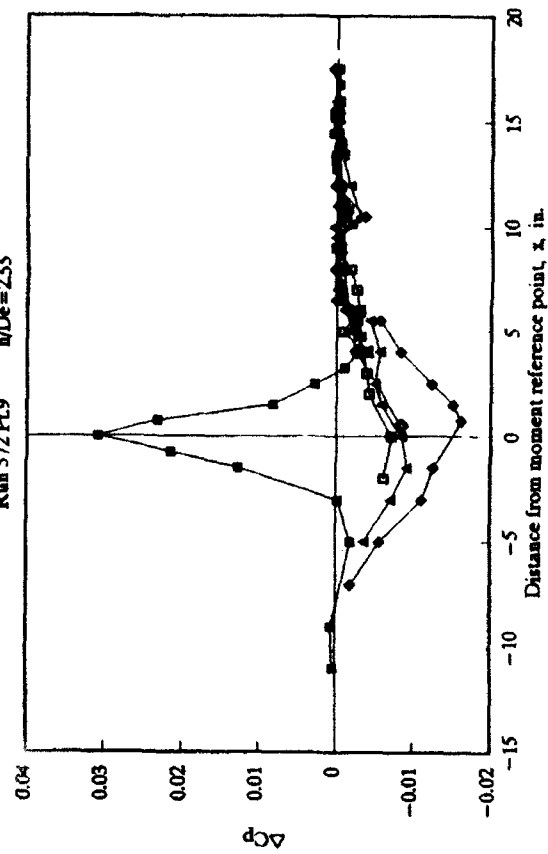
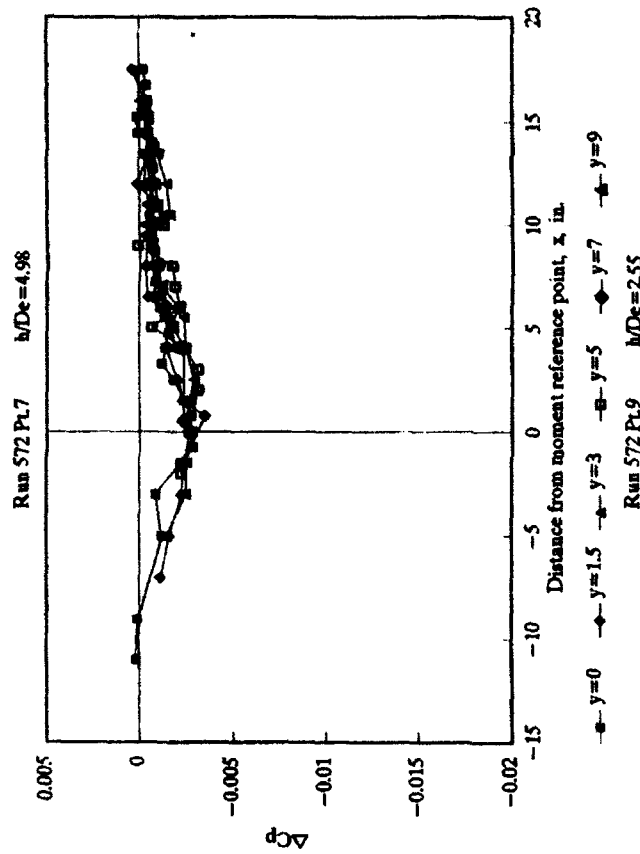
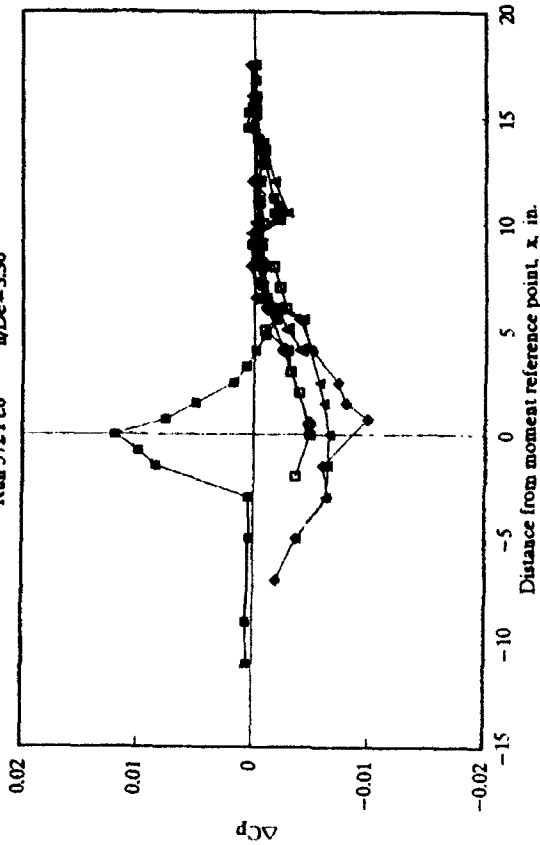
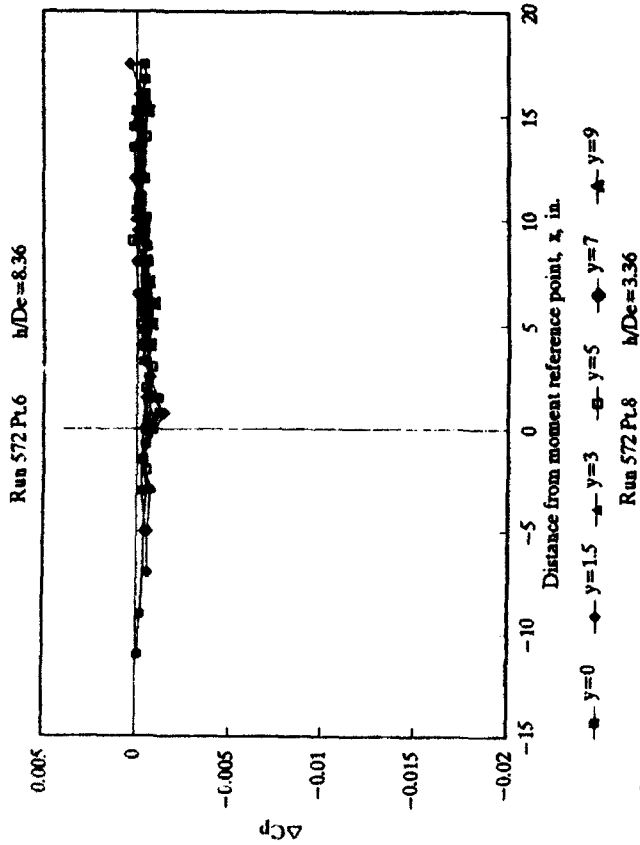


Fig.B-53-a Chordwise distributions of jet induced pressure at selected heights - Front Pair of Jets at Station 12

NPR=2 Run 572  $Ve=0$

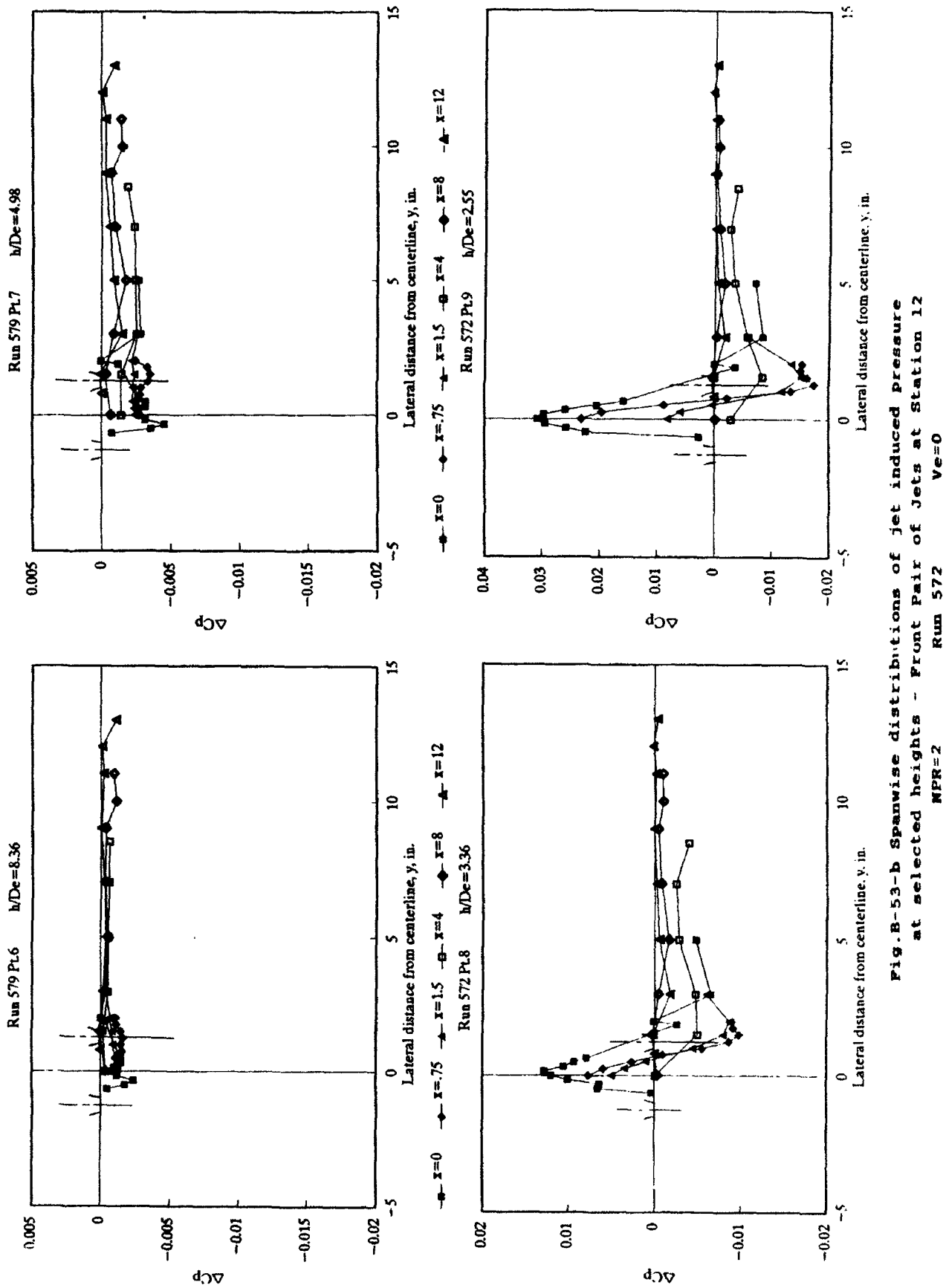


Fig. B-53-b Spanwise distributions of jet induced pressure at selected heights - Front Pair of Jets at Station 12

Run 572

Run 579

MFR=2

$Ve=0$



Run 573  $Ve = .02$ 

	NO <sub>2</sub> =	
Distance	dT =	
Pressure	dT =	
Distance	dATD =	
Pressure	dATD =	

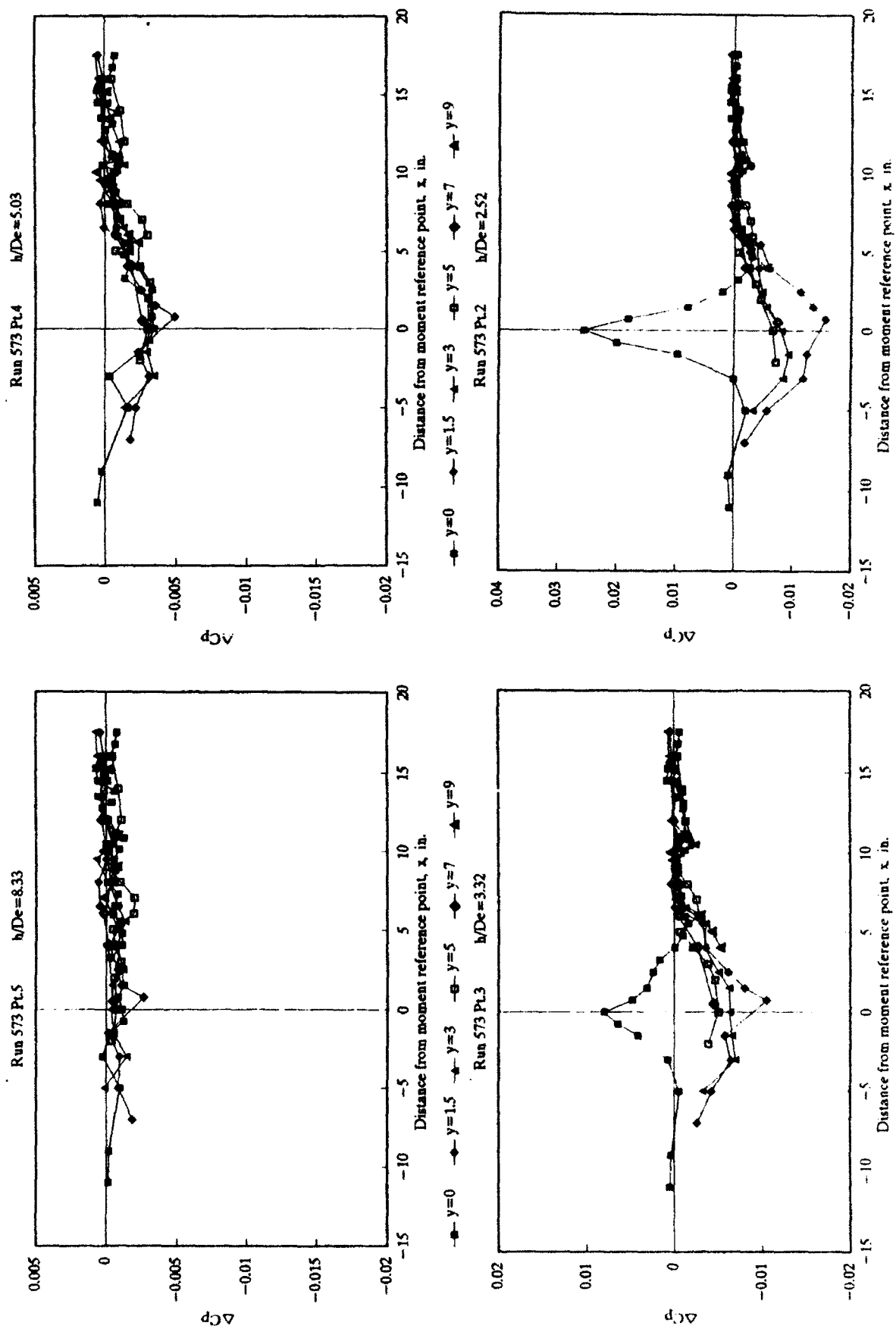


Fig.B-54-a Chordwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12  
NPR=2 Run 573  $Ve=.02$

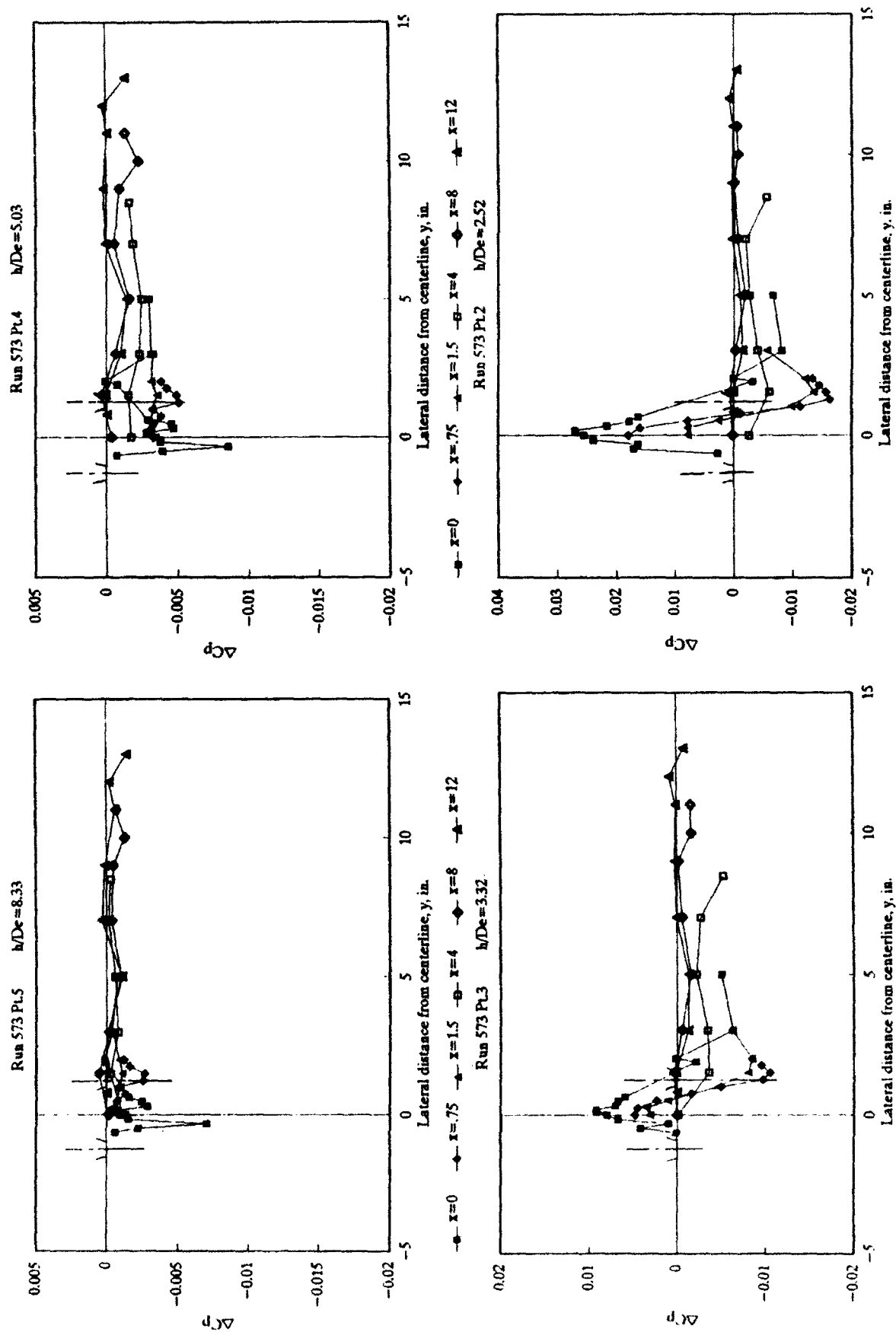


Fig. B-54-b Spanwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12  
NPR=2 Run 573 Ver.02

TABLE B-55 JET INDUCED PRESSURE INCREMENTS  
Front Pair of Jets at Station 12 - NPR=2

Run 574

Ve=0.4

Point NOs =	1	2	3	4	5
y	35.2	16.75	12.48	16.61	35.08
x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
-0.64	0	-0.0008	-0.0003	-0.0008	-0.0008
-0.48	0	-0.0021	-0.0022	-0.0023	-0.0020
-0.32	0	-0.0078	-0.0091	-0.0077	-0.0086
-0.16	0	-0.0013	-0.0015	-0.0010	-0.0013
0	-11	0.0003	-0.0001	-0.0007	-0.0001
0	-9	0.0000	-0.0006	-0.0010	-0.0006
0	-7	-0.0014	-0.0023	-0.0029	-0.0034
0	-5	-0.0011	-0.0015	-0.0017	-0.0011
0	-3	0.0003	0.0001	0.0002	0.0001
0	-1.5	0.0003	-0.0008	-0.0003	-0.0002
0	-0.75	-0.0012	-0.0014	-0.0008	-0.0012
0	0	-0.0008	-0.0012	-0.0008	-0.0009
0	0.75	-0.0001	-0.0004	-0.0003	-0.0000
0	1.5	-0.0007	-0.0008	-0.0009	-0.0008
0	2.5	0.0001	-0.0002	-0.0005	-0.0002
0	3.25	0.0009	0.0007	0.0008	0.0007
0	4	-0.0002	-0.0008	-0.0006	-0.0003
0	4.75	-0.0004	-0.0006	-0.0010	-0.0006
0	5.5	-0.0003	-0.0004	-0.0008	-0.0004
0	6.5	0.0004	0.0002	0.0002	0.0003
0	7.25	-0.0008	-0.0008	-0.0008	-0.0006
0	8	0.0000	-0.0000	-0.0010	-0.0009
0	8.75	-0.0006	-0.0007	-0.0008	-0.0007
0	9.5	-0.0006	-0.0006	-0.0004	-0.0005
0	10.15	-0.0002	-0.0003	-0.0007	-0.0003
0	10.6	0.0008	0.0007	0.0003	0.0007
0	10.85	-0.0006	-0.0007	-0.0010	-0.0006
0	11.2	-0.0001	-0.0002	-0.0006	-0.0002
0	12.8	0.0006	0.0005	0.0005	0.0006
0	13.15	0.0000	0.0000	-0.0001	0.0000
0	13.6	0.0010	0.0010	0.0010	0.0012
0	13.85	-0.0002	-0.0004	-0.0004	-0.0003
0	14.5	0.0007	0.0009	0.0009	0.0007
0	15.25	0.0008	0.0008	0.0010	0.0009
0	16	-0.0003	-0.0004	-0.0002	-0.0004
0	16.75	-0.0007	-0.0008	-0.0008	-0.0008
0	17.5	-0.0010	-0.0011	-0.0010	-0.0012
0.16	0	-0.0004	-0.0007	-0.0001	-0.0006
0.25	0.75	0.0003	-0.0000	0.0004	0.0001
0.25	1.5	0.0006	0.0006	0.0006	0.0006
0.32	0	-0.0027	-0.0032	-0.0023	-0.0032
0.46	0	-0.0022	-0.0027	-0.0017	-0.0026
0.5	0.75	0.0001	-0.0002	0.0002	-0.0001
0.5	1.5	0.0004	0.0003	0.0002	0.0003
0.64	0	-0.0010	-0.0015	-0.0002	-0.0004
0.76	0.75	-0.0024	-0.0026	-0.0026	-0.0026
0.8	1.5	-0.0001	-0.0001	-0.0001	-0.0001
1	0.75	-0.0001	-0.0004	-0.0000	-0.0005
1	1.5	0.0001	-0.0002	-0.0004	-0.0003
1.25	0.75	-0.0021	-0.0018	-0.0026	-0.0027
1.5	-7	-0.0013	-0.0019	-0.0023	-0.0014
1.6	-5	-0.0006	-0.0013	-0.0014	-0.0008
1.6	-3	-0.0011	-0.0013	-0.0014	-0.0011
1.6	-1.5	-0.0004	-0.0006	-0.0004	-0.0005
1.6	0.75	-0.0026	-0.0026	-0.0026	-0.0027
1.5	1.5	-0.0002	-0.0004	-0.0006	-0.0003
1.5	2.5	0.0002	0.0000	0.0004	0.0000
1.5	4	0.0008	0.0007	0.0002	0.0008
1.5	5.5	-0.0003	-0.0005	-0.0011	-0.0006
1.5	6.5	0.0006	0.0007	0.0007	0.0006
1.5	8	0.0007	0.0007	0.0007	0.0006
1.5	9.5	-0.0000	-0.0001	-0.0000	-0.0001
1.5	10.5	0.0003	0.0002	0.0003	0.0002
1.5	12	0.0000	0.0000	0.0000	0.0000
1.5	13.5	0.0008	0.0009	0.0007	0.0008
1.5	14.6	0.0003	0.0003	0.0004	0.0003

Force and Moment Summary  
NOs = 35.2  
Balance dL = -0.156  
Pressure dL = -0.064  
Balance dMTDs = 0.379  
Pressure dMTDs = -0.060

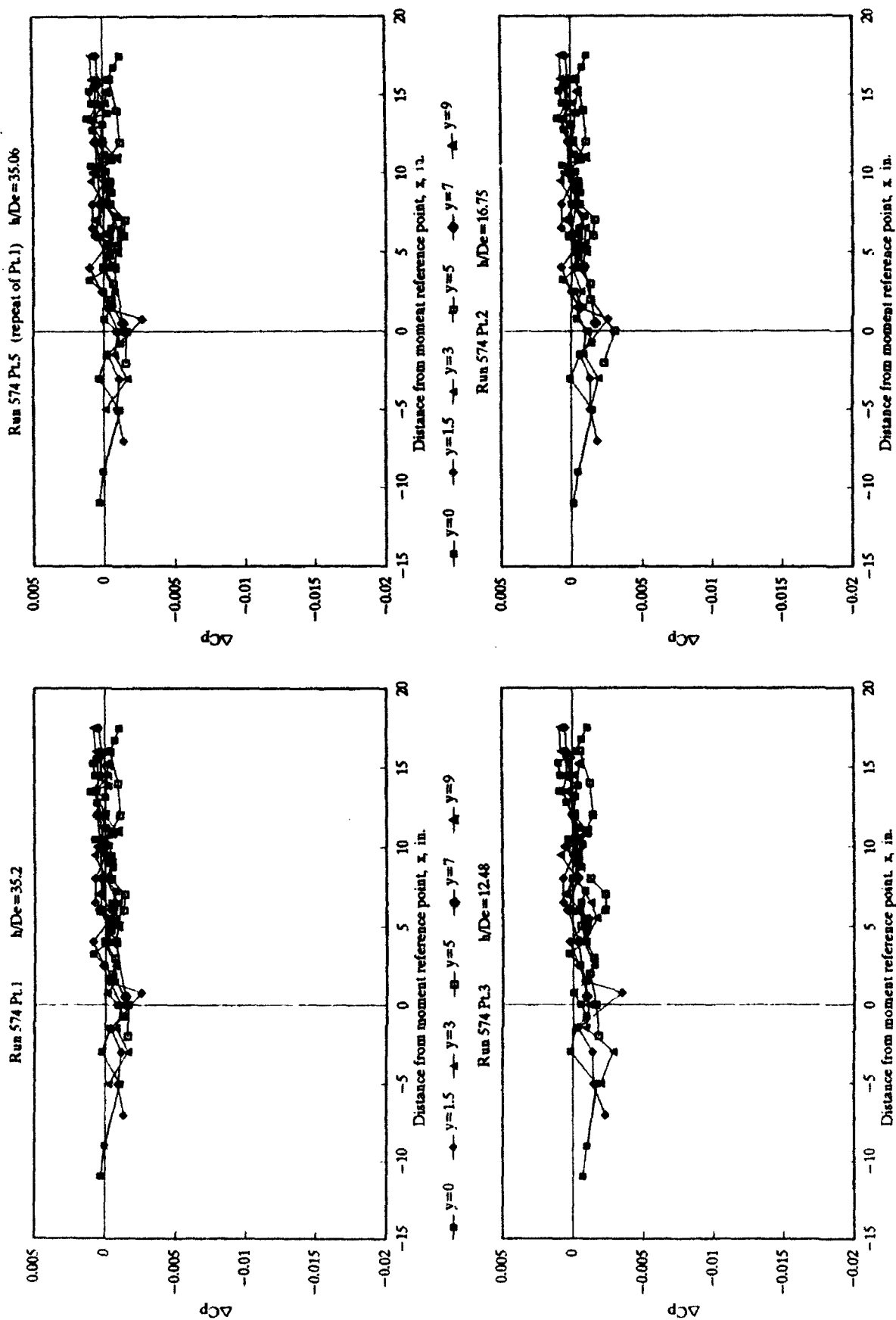


Fig.B-55 Chordwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12  
NPR=2 Run 574 Ver.04

TABLE B-56 JET INDUCED PRESSURE INCREMENTS  
Front Pair of Jets at Station 12 - NPR=2  
Run 575      Ve=.06

Point NDe =	1 35.06	2 16.67	3 12.46	4 8.39	5 3.26	7 1.7
y	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$
-0.64	0	-0.0020	-0.0016	-0.0016	-0.0002	0.0001
-0.48	0	-0.0056	-0.0047	-0.0042	0.0001	0.0068
-0.32	0	-0.0120	-0.0115	-0.0126	0.0035	0.0074
-0.16	0	-0.0040	-0.0035	-0.0042	0.0074	0.0065
0	-11	0.0002	0.0003	0.0001	-0.0006	0.0009
0	-7	-0.0001	-0.0001	-0.0008	-0.0003	0.0002
0	-8	-0.0001	-0.0001	-0.0008	-0.0003	0.0002
0	-6	-0.0016	-0.0016	-0.0025	-0.0044	0.0001
0	-3	-0.0001	-0.0001	-0.0003	-0.0006	0.0004
0	-1.5	-0.0015	-0.0014	-0.0019	-0.0025	0.0044
0	-0.75	-0.0036	-0.0032	-0.0036	-0.0050	0.0058
0	0	-0.0036	-0.0031	-0.0036	-0.0059	0.0064
0	0.75	-0.0018	-0.0015	-0.0023	-0.0016	0.0062
0	1.5	-0.0021	-0.0019	-0.0025	-0.0021	0.0065
0	2.5	-0.0010	-0.0011	-0.0012	-0.0007	0.0069
0	3.26	-0.0000	-0.0000	0.0001	0.0004	0.0064
0	4	-0.0015	-0.0014	-0.0013	-0.0019	0.0044
0	4.75	-0.0016	-0.0014	-0.0014	-0.0012	0.0019
0	5.5	-0.0013	-0.0013	-0.0013	-0.0012	0.0004
0	5.80	-0.0008	-0.0004	-0.0009	-0.0003	0.0004
0	6	-0.0015	-0.0011	-0.0012	-0.0009	0.0017
0	6.25	-0.0012	-0.0011	-0.0012	-0.0009	0.0007
0	6	-0.0008	-0.0004	-0.0005	-0.0002	0.0010
0	8.75	-0.0012	-0.0011	-0.0013	-0.0008	0.0016
0	9.5	-0.0012	-0.0011	-0.0011	-0.0008	0.0017
0	10.15	-0.0010	-0.0009	-0.0010	-0.0007	0.0019
0	10.6	0.0001	0.0002	0.0002	0.0004	0.0019
0	10.85	-0.0014	-0.0014	-0.0014	-0.0022	0.0003
0	11.2	-0.0005	-0.0006	-0.0006	-0.0008	0.0004
0	12.8	0.0000	0.0001	-0.0001	-0.0001	0.0011
0	13.15	-0.0007	-0.0008	-0.0008	-0.0008	0.0009
0	13.5	0.0008	0.0007	0.0004	0.0003	0.0006
0	13.85	-0.0008	-0.0009	-0.0009	-0.0008	0.0004
0	14.5	0.0001	0.0004	0.0003	0.0006	0.0003
0	15.25	0.0004	0.0006	0.0006	0.0009	0.0001
0	16	-0.0009	-0.0009	-0.0009	-0.0008	0.0012
0	16.75	-0.0013	-0.0012	-0.0013	-0.0010	0.0015
0	17.5	-0.0017	-0.0017	-0.0017	-0.0016	0.0018
0	18	-0.0031	-0.0026	-0.0033	-0.0023	0.0019
0.16	0	-0.0031	-0.0031	-0.0019	-0.0015	0.0056
0.25	0.75	-0.0015	-0.0011	-0.0015	-0.0003	0.0062
0.26	1.5	-0.0026	-0.0022	-0.0027	-0.0003	0.0065
0.32	0	-0.0091	-0.0086	-0.0086	-0.0086	0.0080
0.46	0	-0.0081	-0.0086	-0.0086	-0.0082	0.0075
0.5	0.75	-0.0016	-0.0013	-0.0022	-0.0017	0.0076
0.6	1.5	-0.0008	-0.0008	-0.0010	-0.0004	0.0074
0.64	0	-0.0053	-0.0046	-0.0054	-0.0037	0.0065
0.75	0.75	-0.0058	-0.0052	-0.0057	-0.0045	0.0065
0.8	1.2	-0.0004	-0.0003	-0.0004	-0.0003	0.0004
1	0.75	-0.0027	-0.0023	-0.0027	-0.0019	0.0060
1	1	1.6	-0.0012	-0.0013	-0.0011	0.0041
1.25	0.75	-0.0086	-0.0080	-0.0084	-0.0047	0.0068
1.5	1.5	-7	-0.0017	-0.0016	-0.0024	0.0068
1.5	-5	-0.0013	-0.0013	-0.0020	-0.0002	0.0060
1.5	-3	-0.0018	-0.0017	-0.0024	-0.0001	0.0062
1.5	-1.5	-0.0013	-0.0011	-0.0018	-0.0007	0.0065
1.5	0.75	-0.0082	-0.0084	-0.0081	-0.0077	0.0068
1.5	1.5	-0.0019	-0.0020	-0.0019	-0.0016	0.0067
1.5	2.5	-0.0008	-0.0007	-0.0010	-0.0007	0.0067
1.5	4	0.0001	0.0004	0.0004	0.0006	0.0067
1.5	5.5	-0.0012	-0.0013	-0.0012	-0.0012	0.0067
1.5	6.5	0.0003	0.0004	0.0005	0.0007	0.0067
1.5	8	0.0003	0.0005	0.0004	0.0007	0.0068
1.5	9.5	-0.0006	-0.0004	-0.0006	-0.0003	0.0069
1.5	10.5	-0.0003	-0.0003	-0.0003	-0.0001	0.0070
1.5	12	-0.0003	-0.0003	-0.0003	-0.0002	0.0070
1.5	13.5	0.0003	0.0004	0.0004	0.0006	0.0070
1.5	14.5	-0.0001	0.0000	-0.0001	0.0002	0.0070
1.5	15	0.0000	0.0000	0.0000	0.0000	0.0070

Forces and Moment Summary

NDe =

35.06

16.67

12.46

8.39

3.26

1.7

Surface

d,T =

-0.225

-0.262

-0.283

-0.363

-0.542

-0.756

Pressure

d,T =

-0.170

-0.146

-0.122

-0.103

-0.075

-0.048

Surface

dM/Dn =

0.775

0.729

0.772

0.740

0.775

0.743

Pressure

dM/Dn =

0.381

0.279

0.400

0.300

0.364

0.348

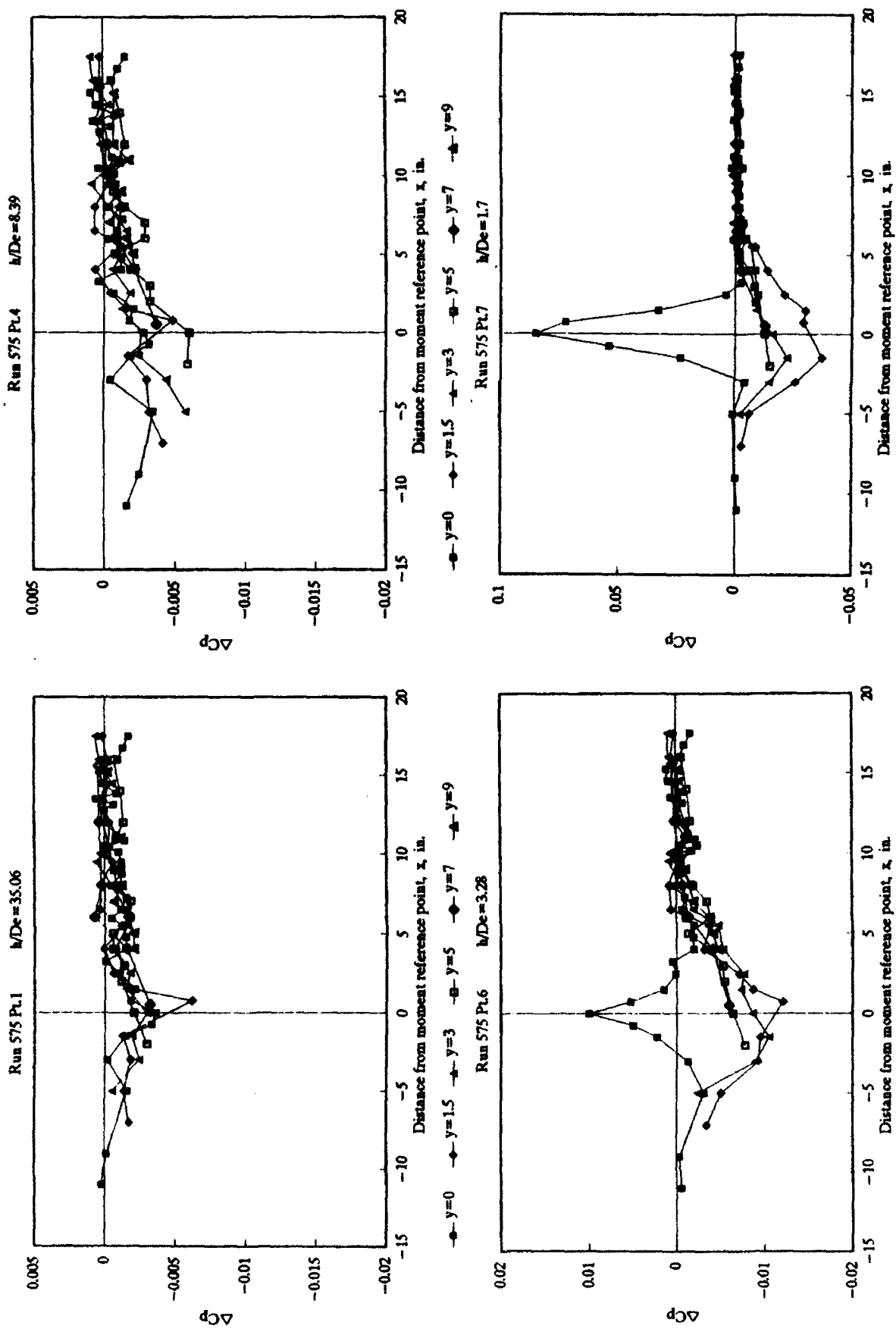


Fig.E-56-a Chordwise distributions of jet induced pressure at selected heights - Front Pair of Jets at Station 12

NPR-2 Run 575  $h/De=0.6$

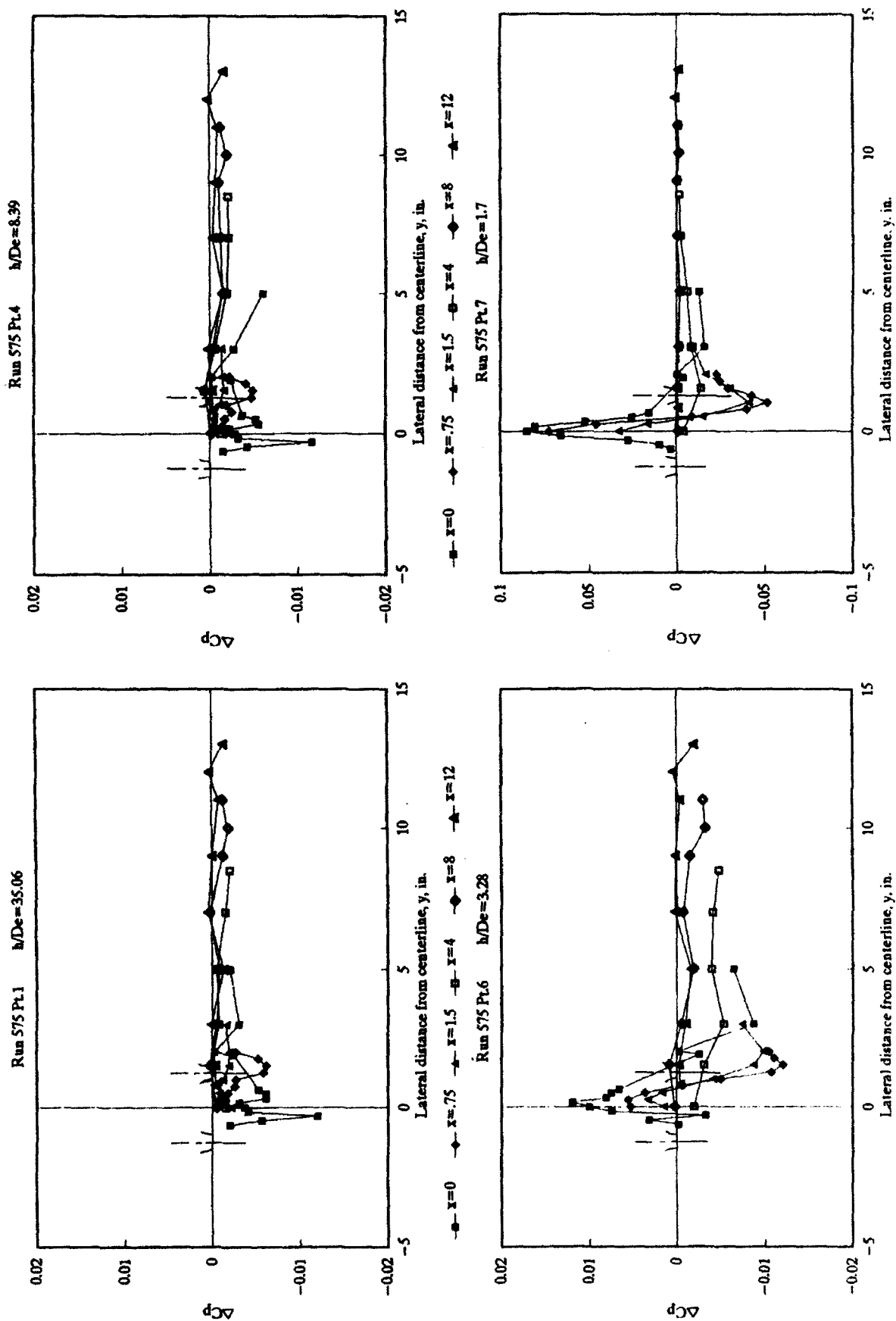


Fig.B-56-b Spanwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12  
Run 575  $NPR=2$   $Ve=.06$





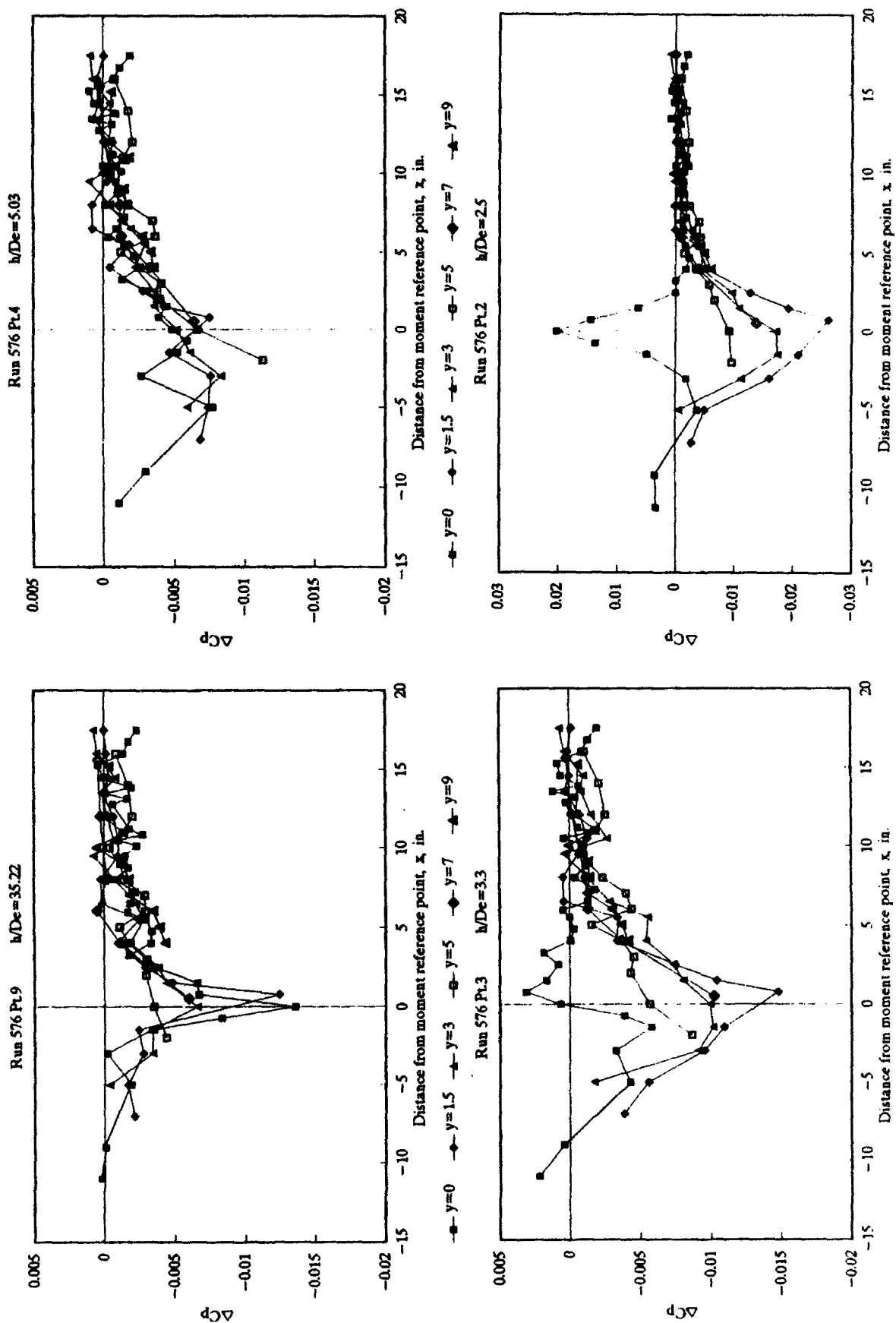


Fig.B-57-a Chordwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12

Run 576  $Ve=.08$   
NPR=2

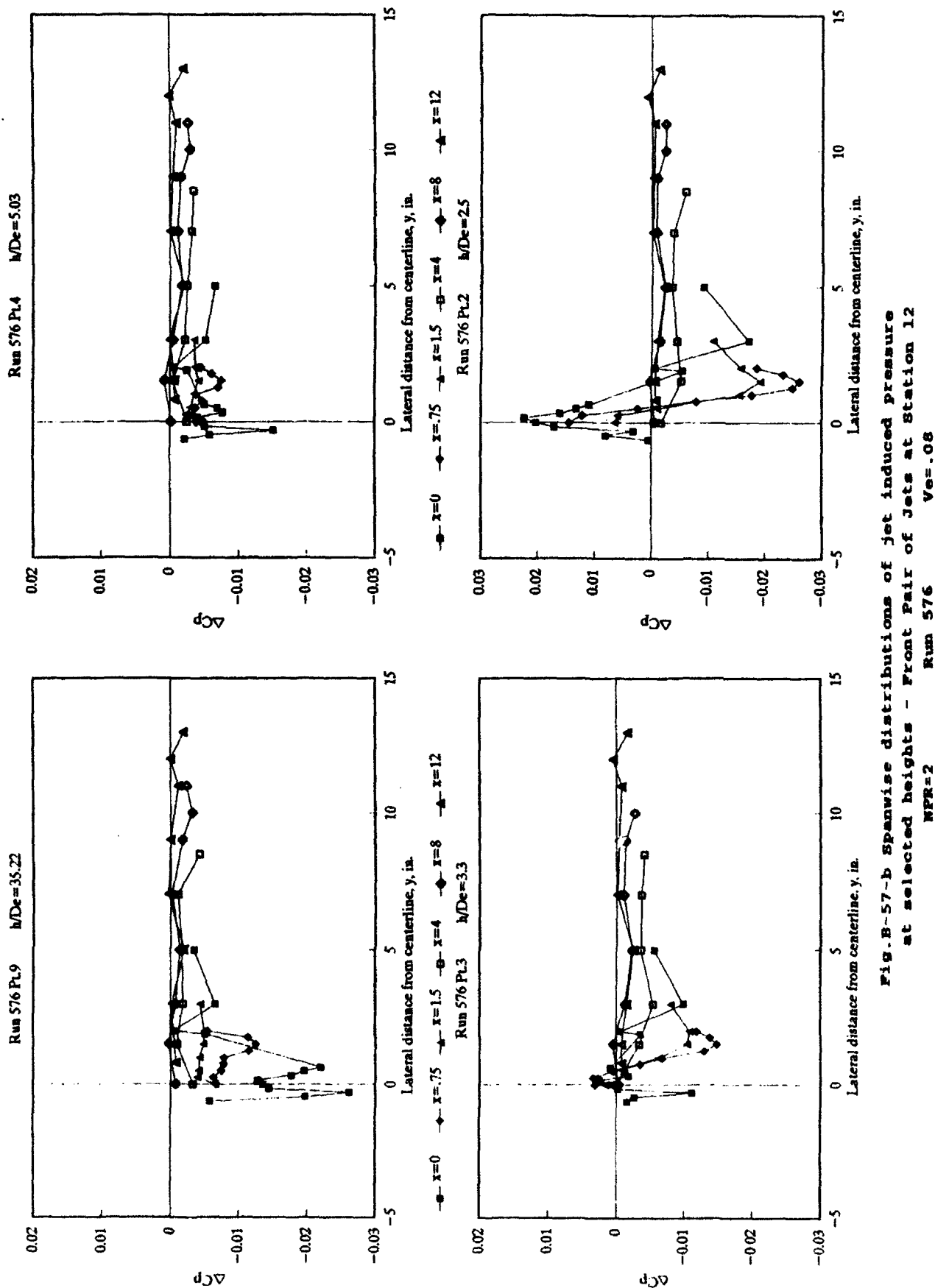


TABLE B-58 JET INDUCED PRESSURE INCREMENTS  
Front Pair of Jets at Station 12 - NPR=2  
Run 577 Ve=.1

y	Point NDe = x	1		2		3		4		5		6		7		Force and Moment Sums
		$\Delta\phi$	$\Delta\psi$	$\Delta\phi$	$\Delta\psi$	$\Delta\phi$	$\Delta\psi$	$\Delta\phi$	$\Delta\psi$	$\Delta\phi$	$\Delta\psi$	$\Delta\phi$	$\Delta\psi$	Balance Pressure Balance Pressure	NDe = dL/T = dM/TDe =	
-0.64	0	-0.0065	-0.0090	-0.0084	-0.0062	-0.0047	-0.0020	-0.0000	1.5	16	0.0002	0.0000	-0.0002	0.0003	0.0002	3.33
-0.48	0	-0.0323	-0.0341	-0.0315	-0.0340	-0.03125	-0.0368	-0.0368	1.5	17.5	-0.0000	-0.0003	-0.0002	-0.0002	-0.0002	2.48
-0.32	0	-0.0573	-0.0591	-0.0585	-0.0593	-0.0570	-0.0617	-0.0617	1.75	0.75	-0.0215	-0.0204	-0.0204	-0.0196	-0.0196	5.06
-0.16	0	-0.0842	-0.0854	-0.0838	-0.0868	-0.0836	-0.0904	-0.0904	1.88	0	-0.0101	-0.0103	-0.0103	-0.0096	-0.0096	3.33
0	-11	0.0004	0.0003	0.0004	0.0005	0.0011	0.0041	0.0037	2	0	-0.0006	-0.0009	-0.0011	-0.0009	-0.0009	5.06
0	-9	0.0001	0.0001	0.0002	0.0003	-0.0009	0.0041	0.0050	2	0.75	-0.0104	-0.0102	-0.0100	-0.0095	-0.0095	3.33
0	-7	-0.0016	-0.0018	-0.0022	-0.0024	-0.0028	-0.0032	-0.0032	2	1.5	-0.0062	-0.0066	-0.0064	-0.0061	-0.0061	5.06
0	-5	-0.0016	-0.0018	-0.0018	-0.0016	-0.0007	-0.0007	-0.0008	3	-5	0.0032	0.0001	0.0003	0.0008	0.0008	3.33
0	-3	-0.0002	-0.0003	-0.0004	-0.0004	-0.0006	-0.0008	-0.0008	3	-3	-0.0034	-0.0034	-0.0033	-0.0036	-0.0036	5.06
0	-1.5	-0.0042	-0.0043	-0.0041	-0.0047	-0.0073	-0.0104	-0.0093	3	-1.5	-0.0044	-0.0043	-0.0043	-0.0047	-0.0047	3.33
0	-0.75	-0.0118	-0.0119	-0.0116	-0.0125	-0.0097	-0.0065	-0.0067	3	0	-0.0108	-0.0106	-0.0106	-0.0074	-0.0082	5.06
0	0	-0.0021	-0.0043	-0.0027	-0.0045	-0.0066	-0.0033	-0.0028	3	1.5	-0.0082	-0.0080	-0.0080	-0.0046	-0.0074	3.33
0	0.75	-0.0115	-0.0124	-0.0110	-0.0119	-0.0095	-0.0020	-0.0126	3	2.5	-0.0097	-0.0068	-0.0064	-0.0045	-0.0062	5.06
0	1.5	-0.0068	-0.0102	-0.0068	-0.0068	-0.0068	-0.0015	-0.0118	3	4	-0.0033	-0.0032	-0.0030	-0.0023	-0.0023	3.33
0	2.5	-0.0068	-0.0063	-0.0063	-0.0061	-0.0045	-0.0000	-0.0027	3	5.5	-0.0035	-0.0034	-0.0034	-0.0034	-0.0034	5.06
0	3.25	-0.0033	-0.0035	-0.0036	-0.0034	-0.0018	-0.0005	-0.0027	3	6.5	-0.0022	-0.0022	-0.0022	-0.0025	-0.0025	3.33
0	4	-0.0046	-0.0046	-0.0044	-0.0050	-0.0033	-0.0001	-0.0058	3	8	-0.0005	-0.0007	-0.0010	-0.0007	-0.0017	5.06
0	4.75	-0.0042	-0.0040	-0.0041	-0.0044	-0.0038	-0.0002	-0.0060	3	9.5	0.0010	0.0010	0.0009	0.0009	0.0004	3.33
0	5.5	-0.0054	-0.0030	-0.0034	-0.0036	-0.0022	-0.0000	-0.0041	3	10.5	0.0010	0.0010	0.0010	0.0011	0.0011	5.06
0	6.5	-0.0019	-0.0017	-0.0019	-0.0018	-0.0010	-0.0009	-0.0016	3	12	-0.0002	-0.0003	-0.0003	-0.0004	-0.0004	3.33
0	7.25	-0.0034	-0.0024	-0.0025	-0.0029	-0.0020	-0.0018	-0.0023	3	13.5	0.0004	0.0004	0.0004	0.0004	0.0002	5.06
0	8	-0.0008	-0.0008	-0.0008	-0.0009	-0.0004	-0.0001	-0.0007	3	14.5	0.0006	0.0007	0.0008	0.0007	0.0003	3.33

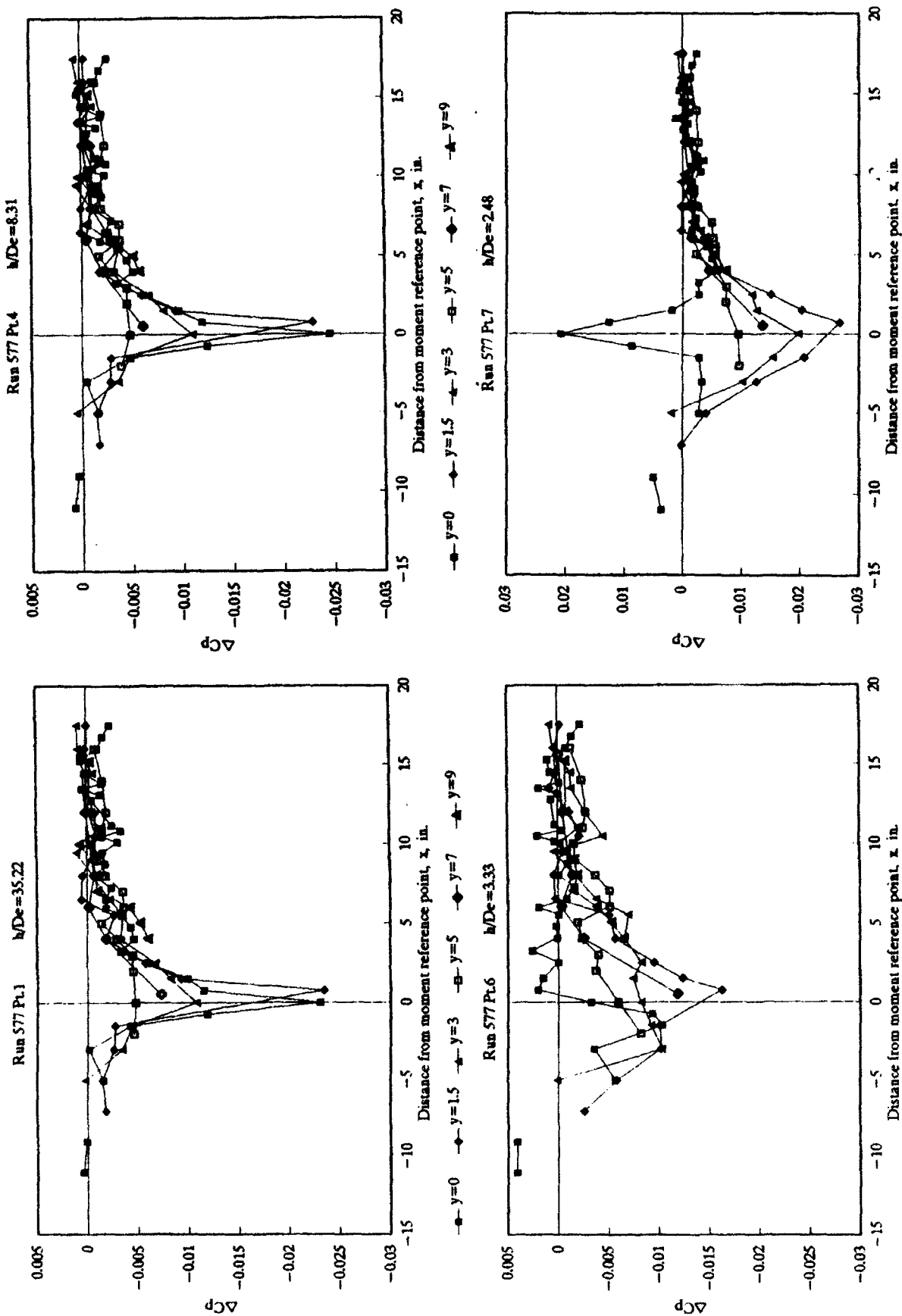
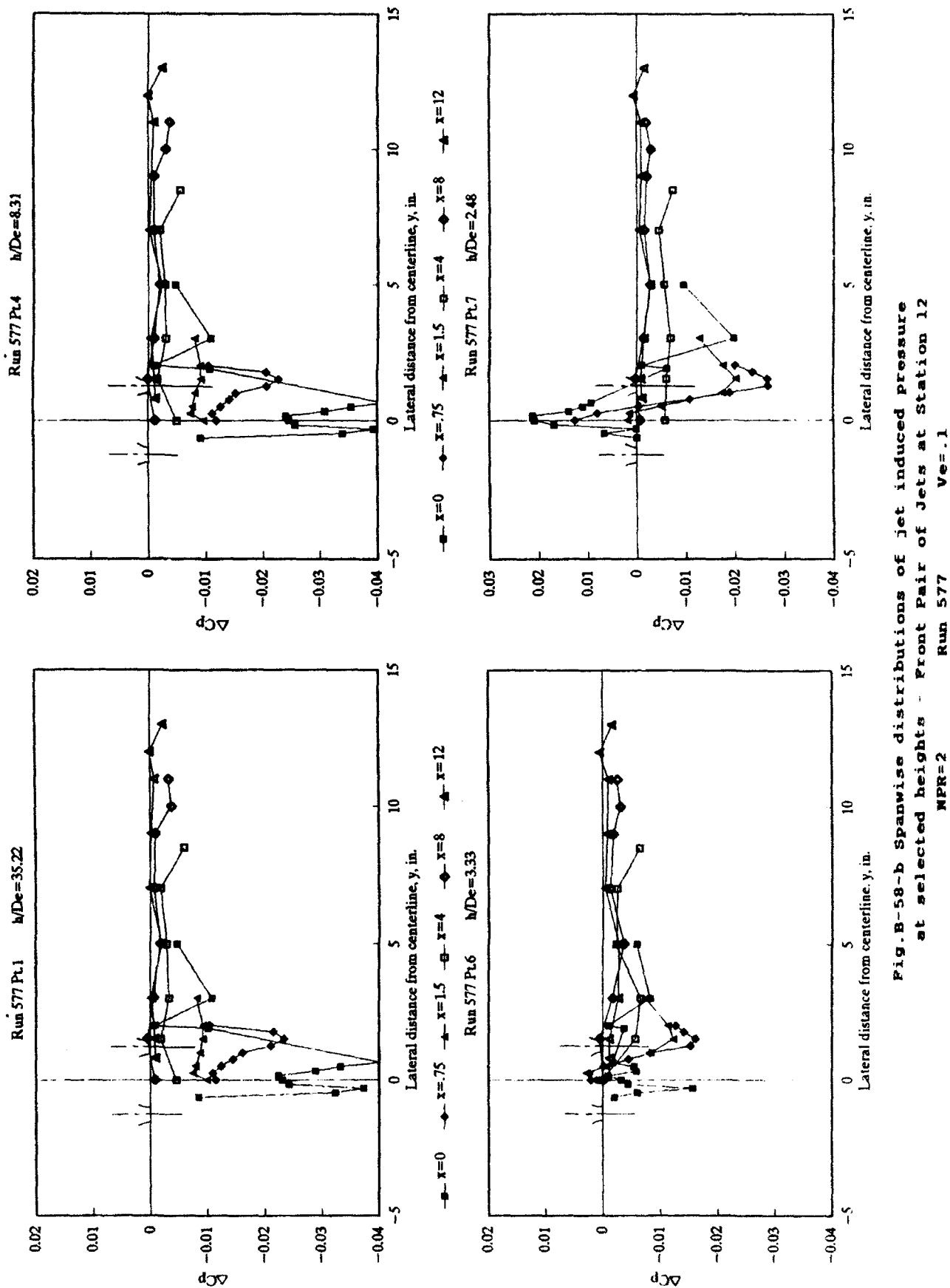


Fig.B-58-a Chordwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12  
Run: 577  $Ve=.1$   
 $NPR=2$





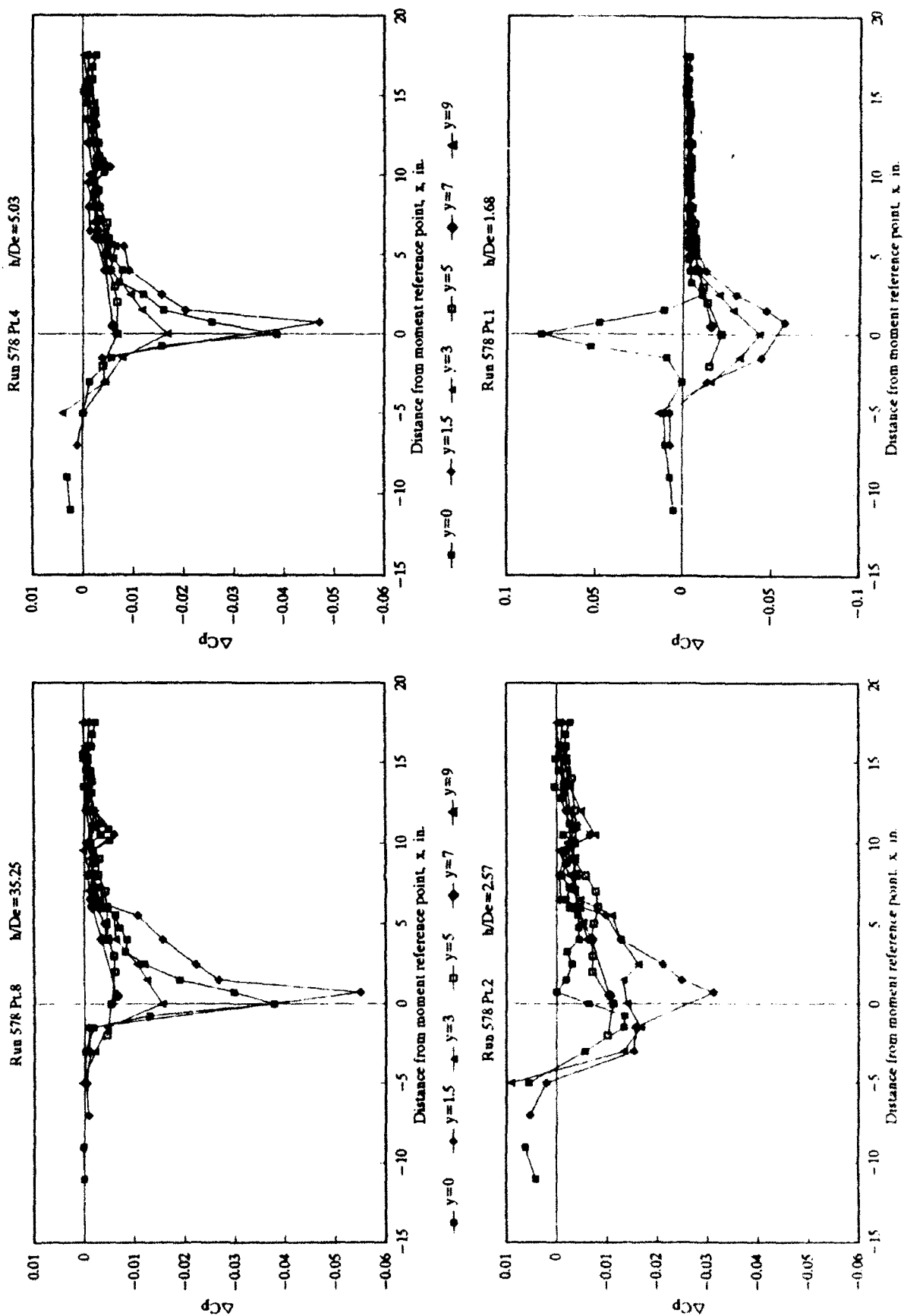


Fig.B-59-a Chordwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12  
Run 578  $Ve=.15$   
NPR=2



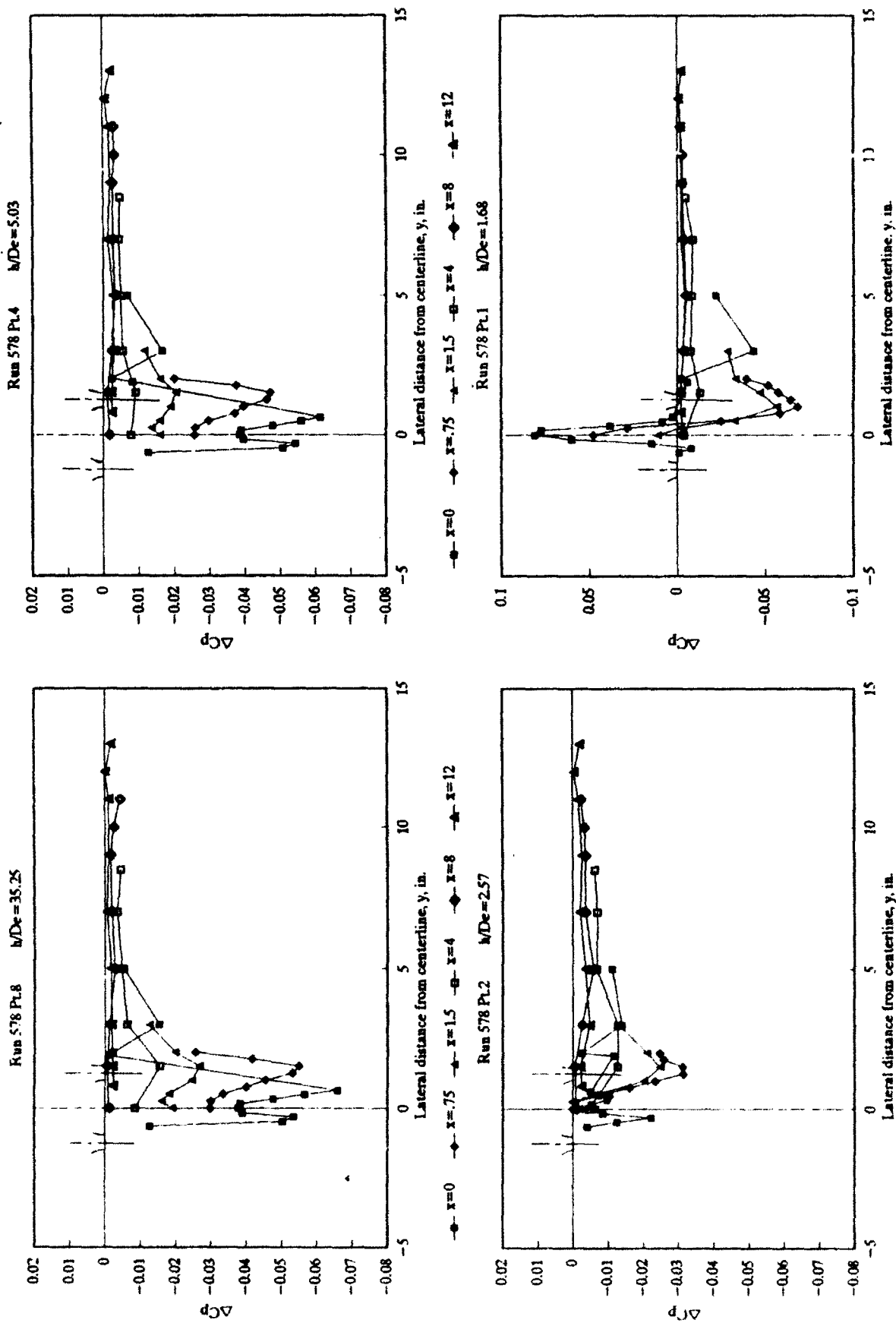
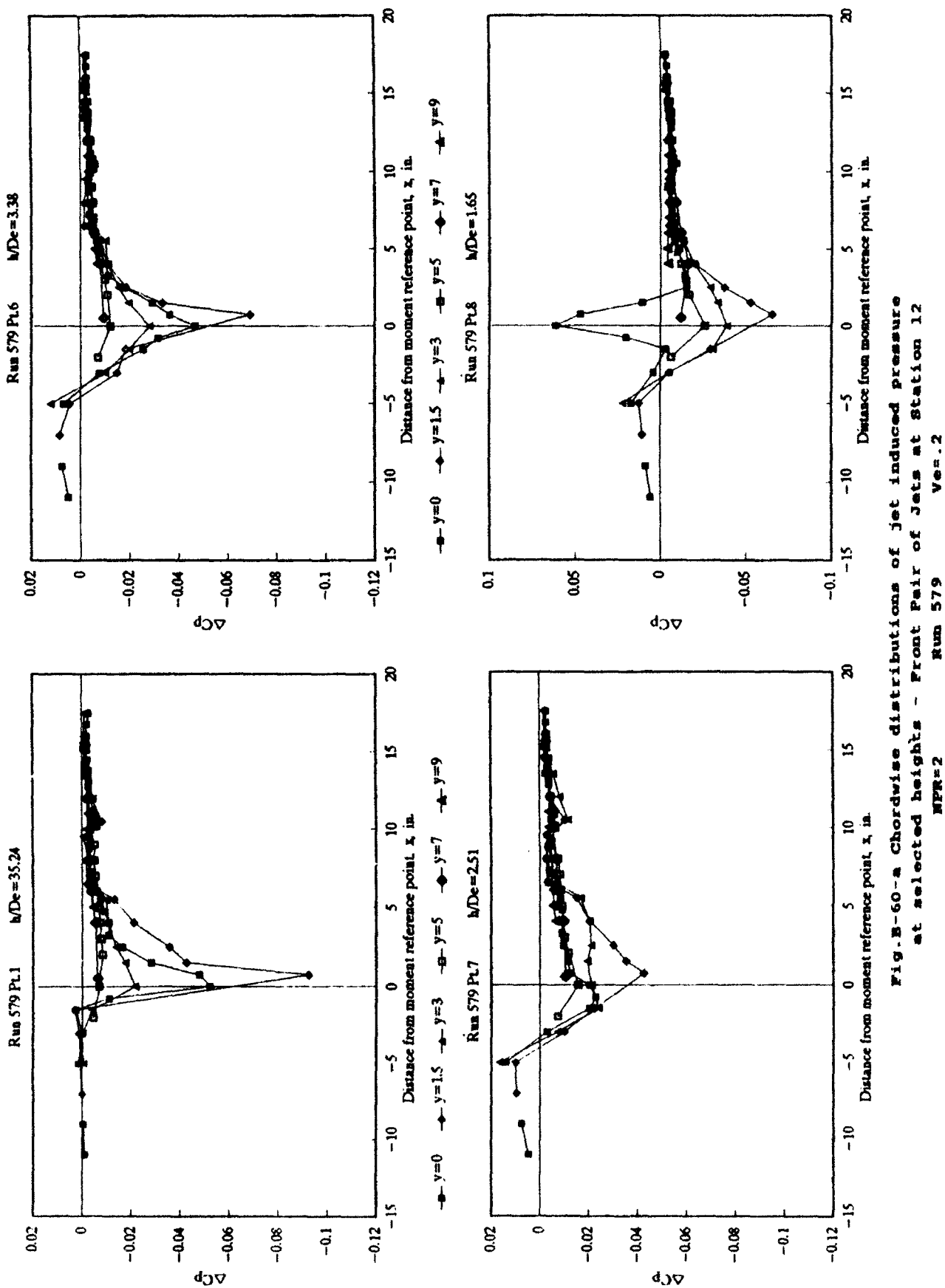


Fig. B-59-b Spanwise distributions of jet induced pressure  
at selected heights - Front Pair of Jets at Station 12  
NPR=2 Run 578  $Ve=.15$





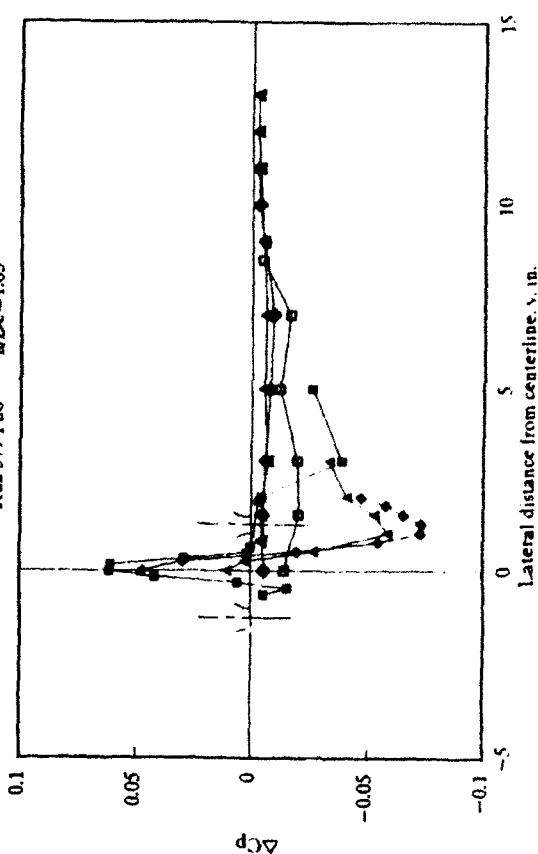
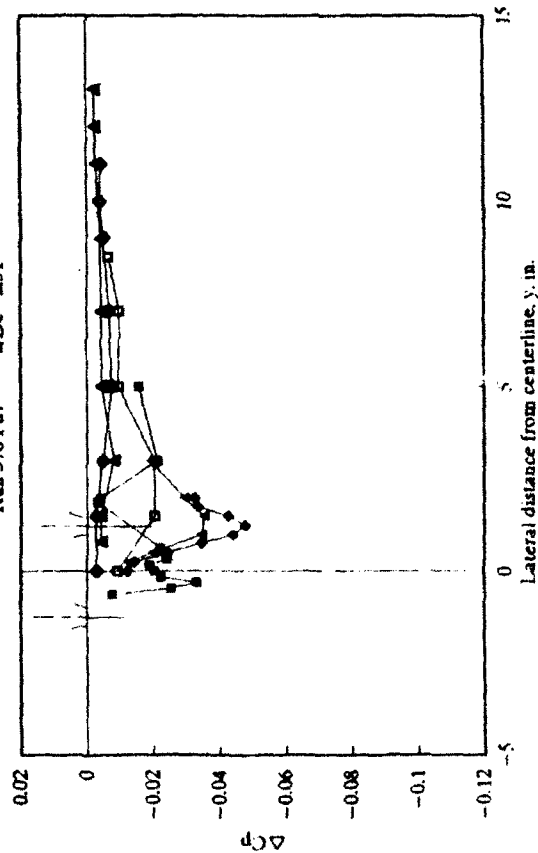
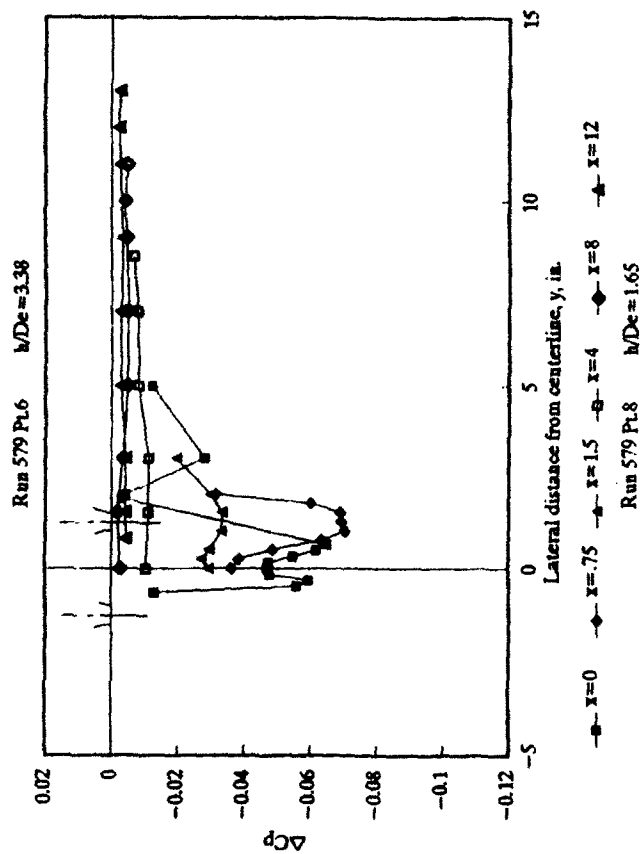
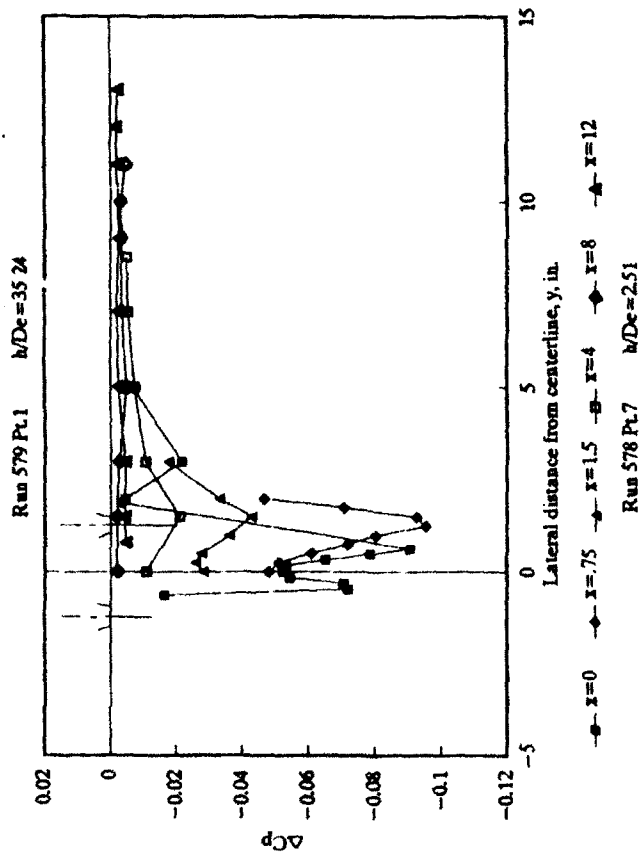


Fig. B-60-b Spanwise distributions of jet induced pressure at selected heights - Front Pair of Jets at Station 12

Run 579  $Ve=.2$   
NPR=2



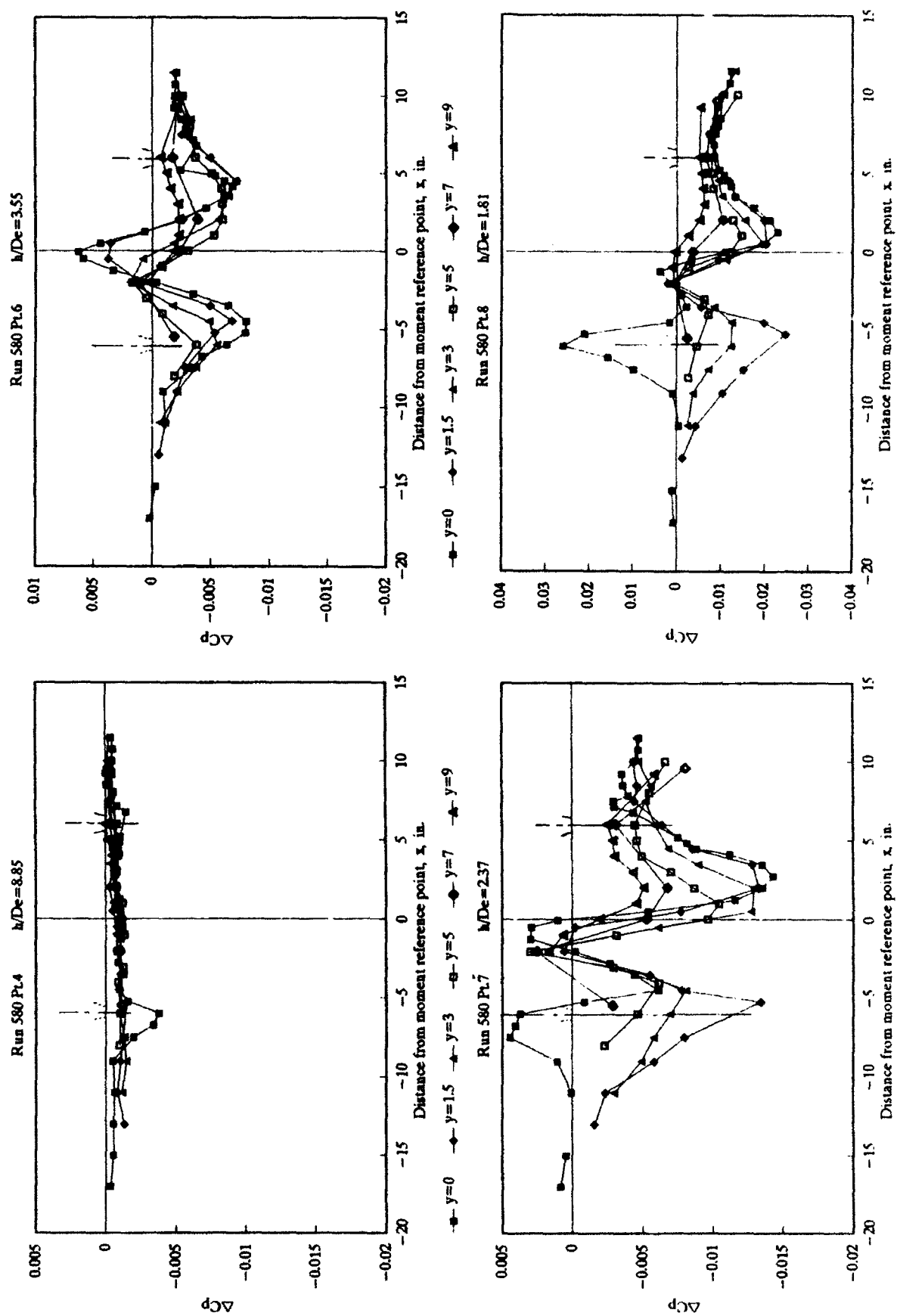


Fig. B-61-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration III - All Jets  
NPR=2 Run S80  $Ve=0$

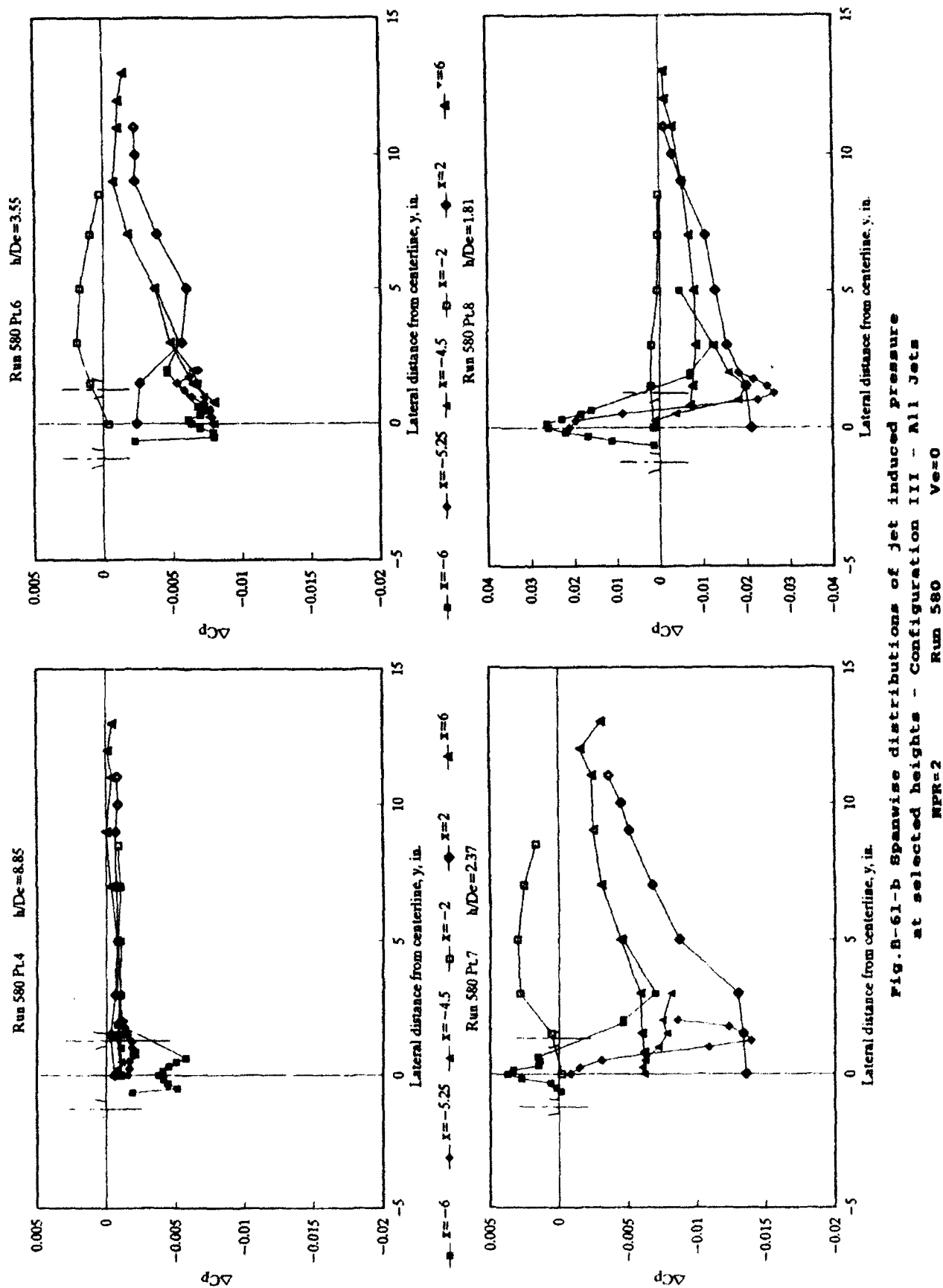
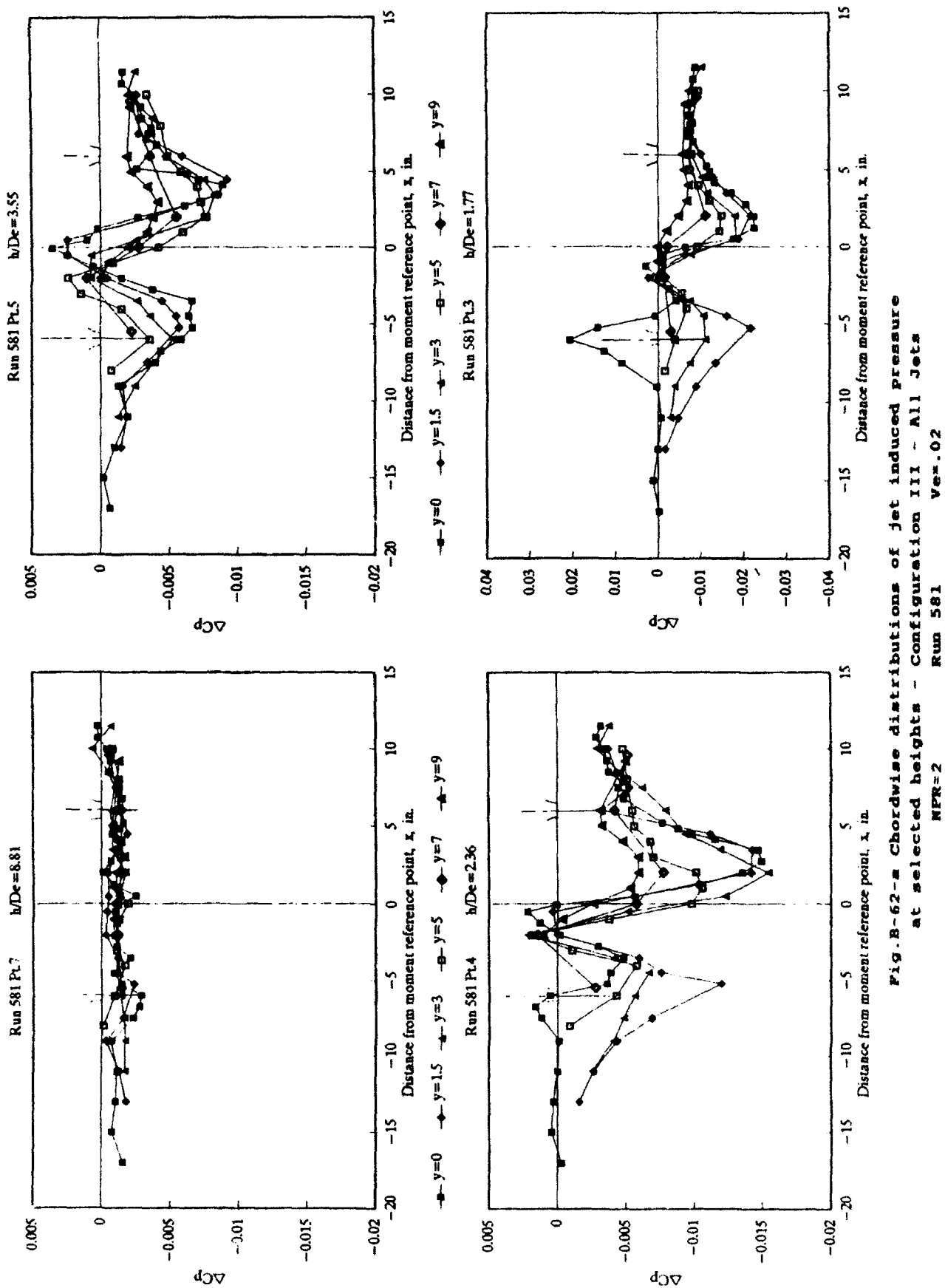


TABLE B-62 JET INDUCED PRESSURE INCREMENTS  
Configuration III - All Jets - NPR=2  
Run 581  
Ve=0.2

Point NDe =	1.16	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary  
NDe = 1.16  
Balance dJ = -1.154  
Pressure dJ = -1.007  
Balance dM/TDe = 1.870  
Pressure dM/TDe = 1.613





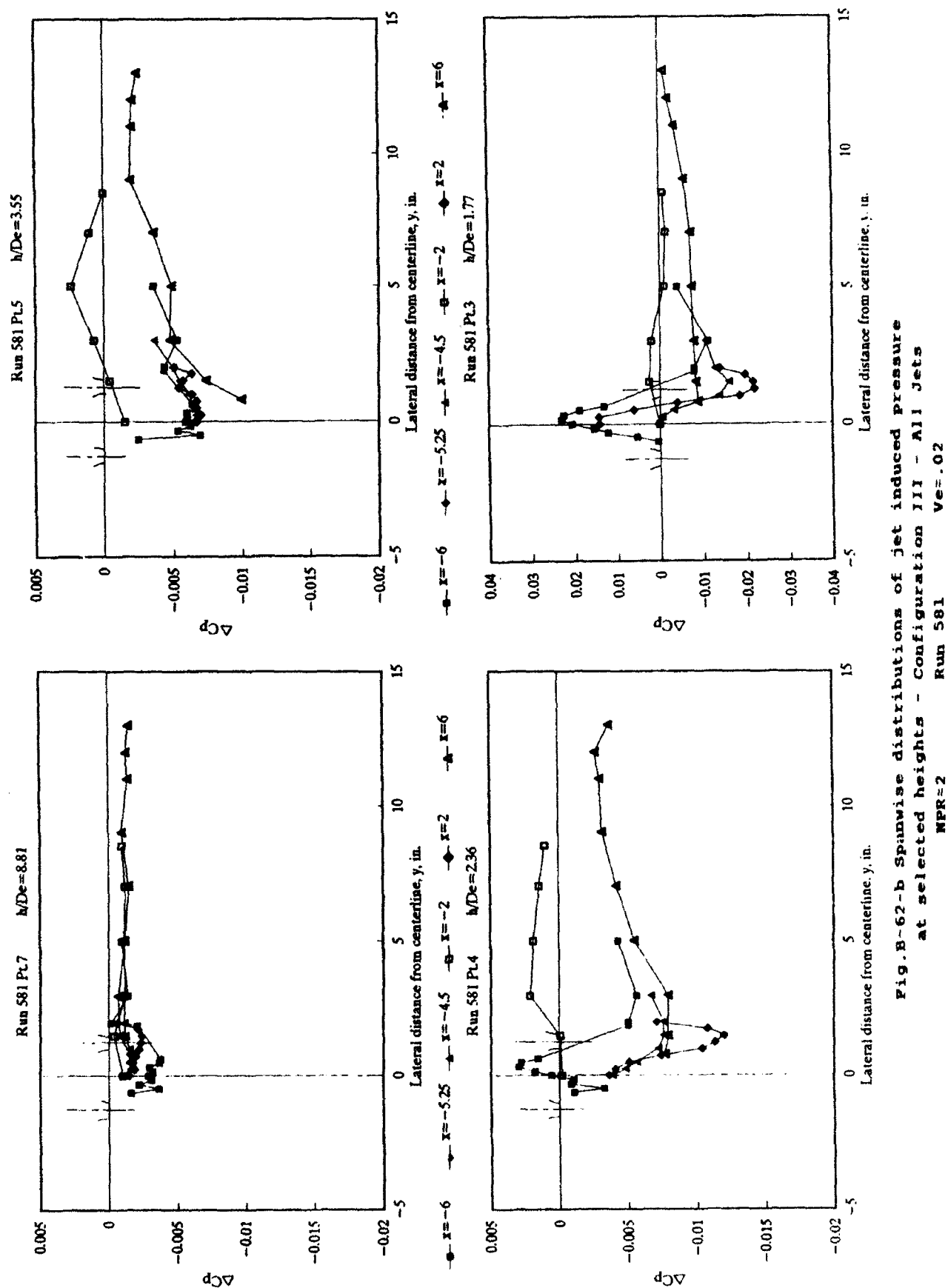


Fig. B-62-b Spanwise distributions of jet induced pressure at selected heights - Configuration III - All Jets

MPR=2 Run 581  $Ve=.02$

TABLE B-63 JET INDUCED PRESSURE INCREMENTS  
Configuration III - All Jets - NPR=2

Rev 582

Ve=0.4

Port NDA =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary  
NDA = 24.74  
B-Moment dL/dx = -0.009  
Pressure dL/dx = -0.009  
Balance dL/dx = -0.001  
Pressure dL/dx = -0.001

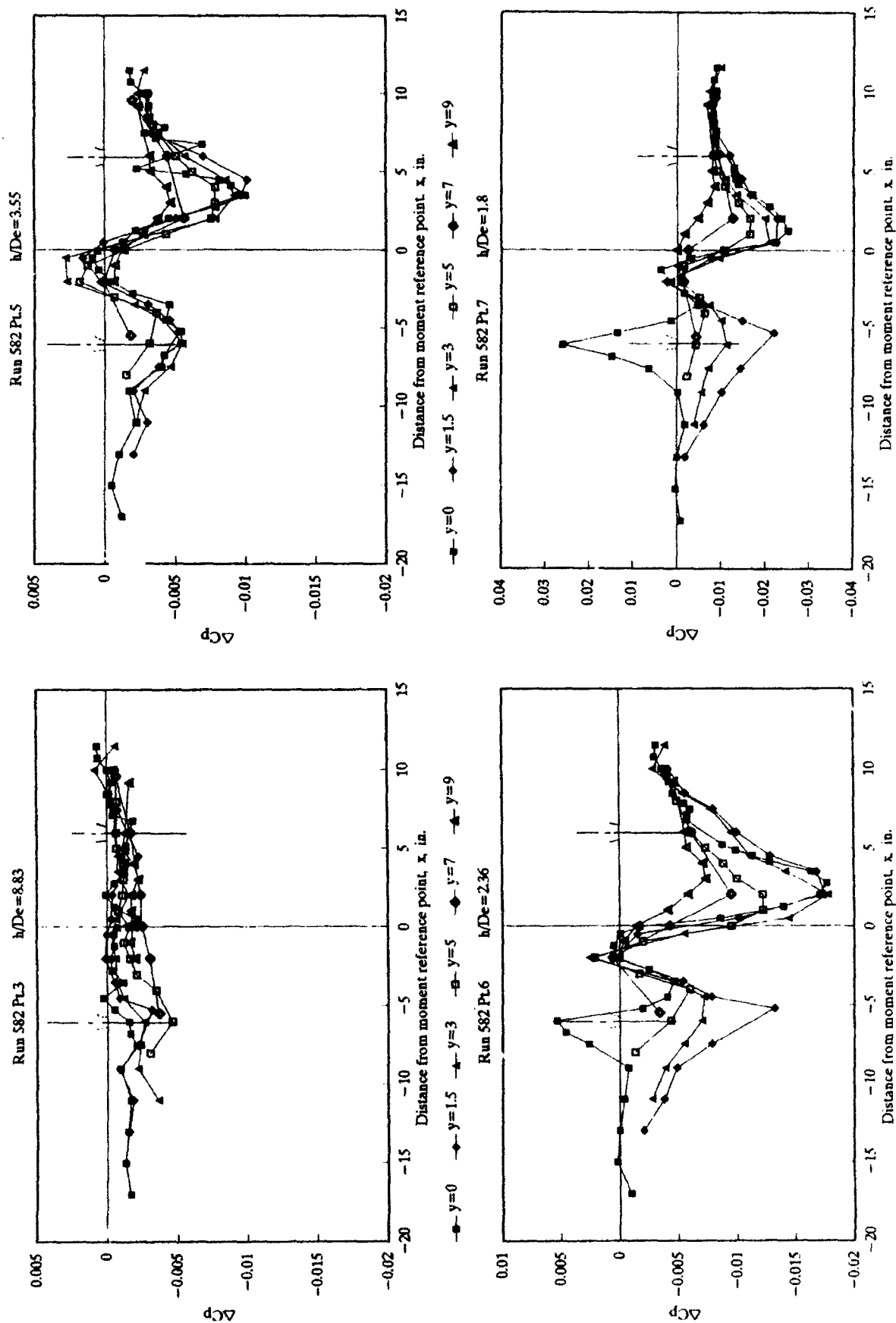


Fig.B-63-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration III - All Jets  
NPR=2 Run 582  $Ve=.04$

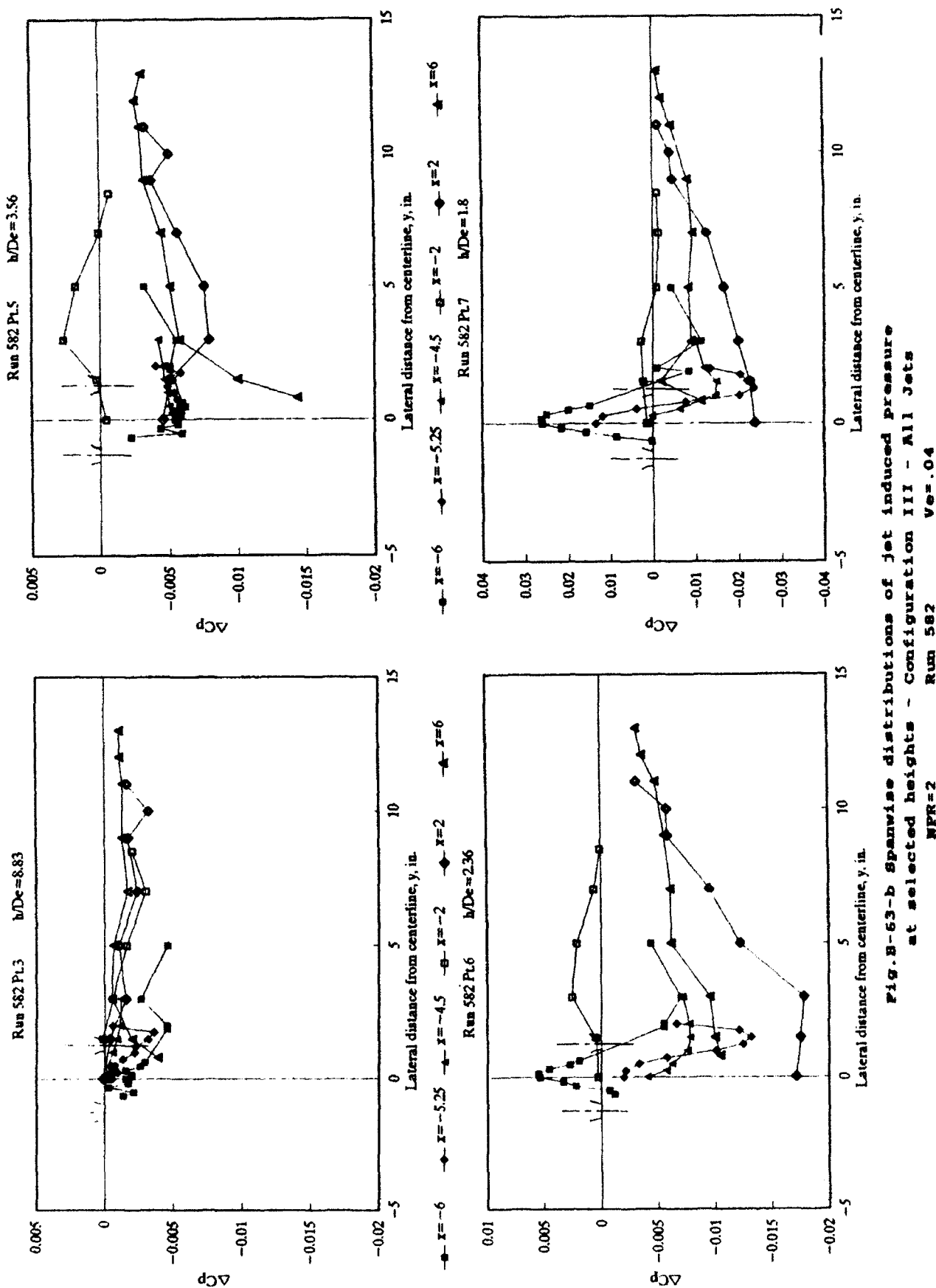
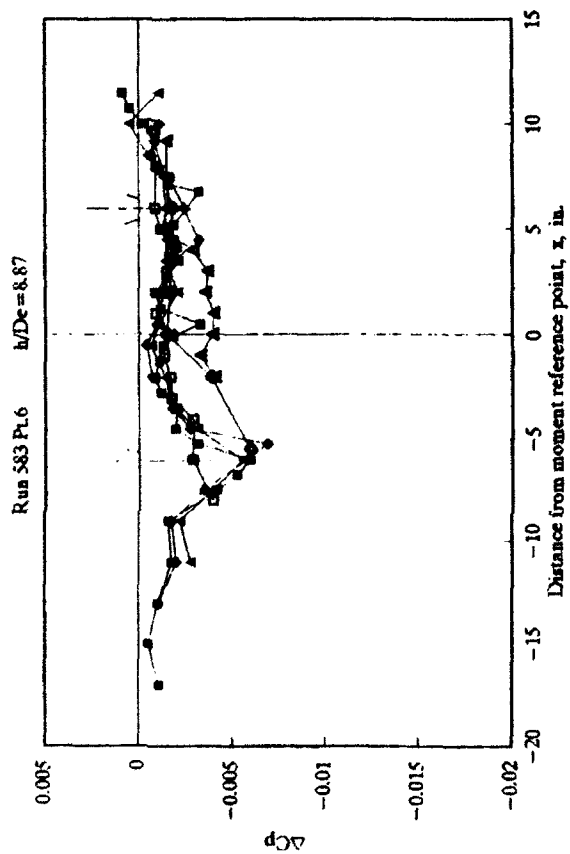


Fig.B-63-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration III - All Jets  
NPR=2 Run 582  $Ve=.04$

TABLE B-64 JET INDUCED PRESSURE INCREMENTS  
Configuration III - All Jets - NPR=2  
Run 583  
Ve=.06

Port NDe =	x	1 Δ Cp	2 Δ Cp	3 Δ Cp	4 Δ Cp	5 Δ Cp	6 Δ Cp	7 Δ Cp	8 Δ Cp	9 Δ Cp	10 Δ Cp	11 Δ Cp	12 Δ Cp	13 Δ Cp	14 Δ Cp	15 Δ Cp	16 Δ Cp	17 Δ Cp	18 Δ Cp	19 Δ Cp	20 Δ Cp	21 Δ Cp	22 Δ Cp	23 Δ Cp	24 Δ Cp	25 Δ Cp	26 Δ Cp	27 Δ Cp	28 Δ Cp	29 Δ Cp	30 Δ Cp	31 Δ Cp	32 Δ Cp	33 Δ Cp	34 Δ Cp	35 Δ Cp	36 Δ Cp	37 Δ Cp	38 Δ Cp	39 Δ Cp	40 Δ Cp	41 Δ Cp	42 Δ Cp	43 Δ Cp	44 Δ Cp	45 Δ Cp	46 Δ Cp	47 Δ Cp	48 Δ Cp	49 Δ Cp	50 Δ Cp	51 Δ Cp	52 Δ Cp	53 Δ Cp	54 Δ Cp	55 Δ Cp	56 Δ Cp	57 Δ Cp	58 Δ Cp	59 Δ Cp	60 Δ Cp	61 Δ Cp	62 Δ Cp	63 Δ Cp	64 Δ Cp	65 Δ Cp	66 Δ Cp	67 Δ Cp	68 Δ Cp	69 Δ Cp	70 Δ Cp	71 Δ Cp	72 Δ Cp	73 Δ Cp	74 Δ Cp	75 Δ Cp	76 Δ Cp	77 Δ Cp	78 Δ Cp	79 Δ Cp	80 Δ Cp	81 Δ Cp	82 Δ Cp	83 Δ Cp	84 Δ Cp	85 Δ Cp	86 Δ Cp	87 Δ Cp	88 Δ Cp	89 Δ Cp	90 Δ Cp	91 Δ Cp	92 Δ Cp	93 Δ Cp	94 Δ Cp	95 Δ Cp	96 Δ Cp	97 Δ Cp	98 Δ Cp	99 Δ Cp	100 Δ Cp	101 Δ Cp	102 Δ Cp	103 Δ Cp	104 Δ Cp	105 Δ Cp	106 Δ Cp	107 Δ Cp	108 Δ Cp	109 Δ Cp	110 Δ Cp	111 Δ Cp	112 Δ Cp	113 Δ Cp	114 Δ Cp	115 Δ Cp	116 Δ Cp	117 Δ Cp	118 Δ Cp	119 Δ Cp	120 Δ Cp	121 Δ Cp	122 Δ Cp	123 Δ Cp	124 Δ Cp	125 Δ Cp	126 Δ Cp	127 Δ Cp	128 Δ Cp	129 Δ Cp	130 Δ Cp	131 Δ Cp	132 Δ Cp	133 Δ Cp	134 Δ Cp	135 Δ Cp	136 Δ Cp	137 Δ Cp	138 Δ Cp	139 Δ Cp	140 Δ Cp	141 Δ Cp	142 Δ Cp	143 Δ Cp	144 Δ Cp	145 Δ Cp	146 Δ Cp	147 Δ Cp	148 Δ Cp	149 Δ Cp	150 Δ Cp	151 Δ Cp	152 Δ Cp	153 Δ Cp	154 Δ Cp	155 Δ Cp	156 Δ Cp	157 Δ Cp	158 Δ Cp	159 Δ Cp	160 Δ Cp	161 Δ Cp	162 Δ Cp	163 Δ Cp	164 Δ Cp	165 Δ Cp	166 Δ Cp	167 Δ Cp	168 Δ Cp	169 Δ Cp	170 Δ Cp	171 Δ Cp	172 Δ Cp	173 Δ Cp	174 Δ Cp	175 Δ Cp	176 Δ Cp	177 Δ Cp	178 Δ Cp	179 Δ Cp	180 Δ Cp	181 Δ Cp	182 Δ Cp	183 Δ Cp	184 Δ Cp	185 Δ Cp	186 Δ Cp	187 Δ Cp	188 Δ Cp	189 Δ Cp	190 Δ Cp	191 Δ Cp	192 Δ Cp	193 Δ Cp	194 Δ Cp	195 Δ Cp	196 Δ Cp	197 Δ Cp	198 Δ Cp	199 Δ Cp	200 Δ Cp	201 Δ Cp	202 Δ Cp	203 Δ Cp	204 Δ Cp	205 Δ Cp	206 Δ Cp	207 Δ Cp	208 Δ Cp	209 Δ Cp	210 Δ Cp	211 Δ Cp	212 Δ Cp	213 Δ Cp	214 Δ Cp	215 Δ Cp	216 Δ Cp	217 Δ Cp	218 Δ Cp	219 Δ Cp	220 Δ Cp	221 Δ Cp	222 Δ Cp	223 Δ Cp	224 Δ Cp	225 Δ Cp	226 Δ Cp	227 Δ Cp	228 Δ Cp	229 Δ Cp	230 Δ Cp	231 Δ Cp	232 Δ Cp	233 Δ Cp	234 Δ Cp	235 Δ Cp	236 Δ Cp	237 Δ Cp	238 Δ Cp	239 Δ Cp	240 Δ Cp	241 Δ Cp	242 Δ Cp	243 Δ Cp	244 Δ Cp	245 Δ Cp	246 Δ Cp	247 Δ Cp	248 Δ Cp	249 Δ Cp	250 Δ Cp	251 Δ Cp	252 Δ Cp	253 Δ Cp	254 Δ Cp	255 Δ Cp	256 Δ Cp	257 Δ Cp	258 Δ Cp	259 Δ Cp	260 Δ Cp	261 Δ Cp	262 Δ Cp	263 Δ Cp	264 Δ Cp	265 Δ Cp	266 Δ Cp	267 Δ Cp	268 Δ Cp	269 Δ Cp	270 Δ Cp	271 Δ Cp	272 Δ Cp	273 Δ Cp	274 Δ Cp	275 Δ Cp	276 Δ Cp	277 Δ Cp	278 Δ Cp	279 Δ Cp	280 Δ Cp	281 Δ Cp	282 Δ Cp	283 Δ Cp	284 Δ Cp	285 Δ Cp	286 Δ Cp	287 Δ Cp	288 Δ Cp	289 Δ Cp	290 Δ Cp	291 Δ Cp	292 Δ Cp	293 Δ Cp	294 Δ Cp	295 Δ Cp	296 Δ Cp	297 Δ Cp	298 Δ Cp	299 Δ Cp	300 Δ Cp	301 Δ Cp	302 Δ Cp	303 Δ Cp	304 Δ Cp	305 Δ Cp	306 Δ Cp	307 Δ Cp	308 Δ Cp	309 Δ Cp	310 Δ Cp	311 Δ Cp	312 Δ Cp	313 Δ Cp	314 Δ Cp	315 Δ Cp	316 Δ Cp	317 Δ Cp	318 Δ Cp	319 Δ Cp	320 Δ Cp	321 Δ Cp	322 Δ Cp	323 Δ Cp	324 Δ Cp	325 Δ Cp	326 Δ Cp	327 Δ Cp	328 Δ Cp	329 Δ Cp	330 Δ Cp	331 Δ Cp	332 Δ Cp	333 Δ Cp	334 Δ Cp	335 Δ Cp	336 Δ Cp	337 Δ Cp	338 Δ Cp	339 Δ Cp	340 Δ Cp	341 Δ Cp	342 Δ Cp	343 Δ Cp	344 Δ Cp	345 Δ Cp	346 Δ Cp	347 Δ Cp	348 Δ Cp	349 Δ Cp	350 Δ Cp	351 Δ Cp	352 Δ Cp	353 Δ Cp	354 Δ Cp	355 Δ Cp	356 Δ Cp	357 Δ Cp	358 Δ Cp	359 Δ Cp	360 Δ Cp	361 Δ Cp	362 Δ Cp	363 Δ Cp	364 Δ Cp	365 Δ Cp	366 Δ Cp	367 Δ Cp	368 Δ Cp	369 Δ Cp	370 Δ Cp	371 Δ Cp	372 Δ Cp	373 Δ Cp	374 Δ Cp	375 Δ Cp	376 Δ Cp	377 Δ Cp	378 Δ Cp	379 Δ Cp	380 Δ Cp	381 Δ Cp	382 Δ Cp	383 Δ Cp	384 Δ Cp	385 Δ Cp	386 Δ Cp	387 Δ Cp	388 Δ Cp	389 Δ Cp	390 Δ Cp	391 Δ Cp	392 Δ Cp	393 Δ Cp	394 Δ Cp	395 Δ Cp	396 Δ Cp	397 Δ Cp	398 Δ Cp	399 Δ Cp	400 Δ Cp	401 Δ Cp	402 Δ Cp	403 Δ Cp	404 Δ Cp	405 Δ Cp	406 Δ Cp	407 Δ Cp	408 Δ Cp	409 Δ Cp	410 Δ Cp	411 Δ Cp	412 Δ Cp	413 Δ Cp	414 Δ Cp	415 Δ Cp	416 Δ Cp	417 Δ Cp	418 Δ Cp	419 Δ Cp	420 Δ Cp	421 Δ Cp	422 Δ Cp	423 Δ Cp	424 Δ Cp	425 Δ Cp	426 Δ Cp	427 Δ Cp	428 Δ Cp	429 Δ Cp	430 Δ Cp	431 Δ Cp	432 Δ Cp	433 Δ Cp	434 Δ Cp	435 Δ Cp	436 Δ Cp	437 Δ Cp	438 Δ Cp	439 Δ Cp	440 Δ Cp	441 Δ Cp	442 Δ Cp	443 Δ Cp	444 Δ Cp	445 Δ Cp	446 Δ Cp	447 Δ Cp	448 Δ Cp	449 Δ Cp	450 Δ Cp	451 Δ Cp	452 Δ Cp	453 Δ Cp	454 Δ Cp	455 Δ Cp	456 Δ Cp	457 Δ Cp	458 Δ Cp	459 Δ Cp	460 Δ Cp	461 Δ Cp	462 Δ Cp	463 Δ Cp	464 Δ Cp	465 Δ Cp	466 Δ Cp	467 Δ Cp	468 Δ Cp	469 Δ Cp	470 Δ Cp	471 Δ Cp	472 Δ Cp	473 Δ Cp	474 Δ Cp	475 Δ Cp	476 Δ Cp	477 Δ Cp	478 Δ Cp	479 Δ Cp	480 Δ Cp	481 Δ Cp	482 Δ Cp	483 Δ Cp	484 Δ Cp	485 Δ Cp	486 Δ Cp	487 Δ Cp	488 Δ Cp	489 Δ Cp	490 Δ Cp	491 Δ Cp	492 Δ Cp	493 Δ Cp	494 Δ Cp	495 Δ Cp	496 Δ Cp	497 Δ Cp	498 Δ Cp	499 Δ Cp	500 Δ Cp	501 Δ Cp	502 Δ Cp	503 Δ Cp	504 Δ Cp	505 Δ Cp	506 Δ Cp	507 Δ Cp	508 Δ Cp	509 Δ Cp	510 Δ Cp	511 Δ Cp	512 Δ Cp	513 Δ Cp	514 Δ Cp	515 Δ Cp	516 Δ Cp	517 Δ Cp	518 Δ Cp	519 Δ Cp	520 Δ Cp	521 Δ Cp	522 Δ Cp	523 Δ Cp	524 Δ Cp	525 Δ Cp	526 Δ Cp	527 Δ Cp	528 Δ Cp	529 Δ Cp	530 Δ Cp	531 Δ Cp	532 Δ Cp	533 Δ Cp	534 Δ Cp	535 Δ Cp	536 Δ Cp	537 Δ Cp	538 Δ Cp	539 Δ Cp	540 Δ Cp	541 Δ Cp	542 Δ Cp	543 Δ Cp	544 Δ Cp	545 Δ Cp	546 Δ Cp	547 Δ Cp	548 Δ Cp	549 Δ Cp	550 Δ Cp	551 Δ Cp	552 Δ Cp	553 Δ Cp	554 Δ Cp	555 Δ Cp	556 Δ Cp	557 Δ Cp	558 Δ Cp	559 Δ Cp	560 Δ Cp	561 Δ Cp	562 Δ Cp	563 Δ Cp	564 Δ Cp	565 Δ Cp	566 Δ Cp	567 Δ Cp	568 Δ Cp	569 Δ Cp	570 Δ Cp	571 Δ Cp	572 Δ Cp	573 Δ Cp	574 Δ Cp	575 Δ Cp	576 Δ Cp	577 Δ Cp	578 Δ Cp	579 Δ Cp	580 Δ Cp	581 Δ Cp	582 Δ Cp	583 Δ Cp	584 Δ Cp	585 Δ Cp	586 Δ Cp	587 Δ Cp	588 Δ Cp	589 Δ Cp	590 Δ Cp	591 Δ Cp	592 Δ Cp	593 Δ Cp	594 Δ Cp	595 Δ Cp	596 Δ Cp	597 Δ Cp	598 Δ Cp	599 Δ Cp	600 Δ Cp	601 Δ Cp	602 Δ Cp	603 Δ Cp	604 Δ Cp	605 Δ Cp	606 Δ Cp	607 Δ Cp	608 Δ Cp	609 Δ Cp	610 Δ Cp	611 Δ Cp	612 Δ Cp	613 Δ Cp	614 Δ Cp	615 Δ Cp	616 Δ Cp	617 Δ Cp	618 Δ Cp	619 Δ Cp	620 Δ Cp	621 Δ Cp	622 Δ Cp	623 Δ Cp	624 Δ Cp	625 Δ Cp	626 Δ Cp	627 Δ Cp	628 Δ Cp	629 Δ Cp	630 Δ Cp	631 Δ Cp	632 Δ Cp	633 Δ Cp	634 Δ Cp	635 Δ Cp	636 Δ Cp	637 Δ Cp	638 Δ Cp	639 Δ Cp	640 Δ Cp	641 Δ Cp	642 Δ Cp	643 Δ Cp	644 Δ Cp	645 Δ Cp	646 Δ Cp	647 Δ Cp	648 Δ Cp	649 Δ Cp	650 Δ Cp	651 Δ Cp	652 Δ Cp	653 Δ Cp	654 Δ Cp	655 Δ Cp	656 Δ Cp	657 Δ Cp	658 Δ Cp	659 Δ Cp	660 Δ Cp	661 Δ Cp	662 Δ Cp	663 Δ Cp	664 Δ Cp	665 Δ Cp	666 Δ Cp	667 Δ Cp	668 Δ Cp	669 Δ Cp	670 Δ Cp	671 Δ Cp	672 Δ Cp	673 Δ Cp	674 Δ Cp	675 Δ Cp	676 Δ Cp	677 Δ Cp	678 Δ Cp	679 Δ Cp	680 Δ Cp	681 Δ Cp	682 Δ Cp	683 Δ Cp	684 Δ Cp	685 Δ Cp	686 Δ Cp	687 Δ Cp	688 Δ Cp	689 Δ Cp	690 Δ Cp	691 Δ Cp	692 Δ Cp	693 Δ Cp	694 Δ Cp	695 Δ Cp	696 Δ Cp	697 Δ Cp	698 Δ Cp	699 Δ Cp	700 Δ Cp	701 Δ Cp	702 Δ Cp	703 Δ Cp	704 Δ Cp	705 Δ Cp	706 Δ Cp	707 Δ Cp	708 Δ Cp	709 Δ Cp	710 Δ Cp	711 Δ Cp	712 Δ Cp	713 Δ Cp	714 Δ Cp	715 Δ Cp	716 Δ Cp	717 Δ Cp	718 Δ Cp	719 Δ Cp	720 Δ Cp	721 Δ Cp	722 Δ Cp	723 Δ Cp	724 Δ Cp	725 Δ Cp	726 Δ Cp	727 Δ Cp	728 Δ Cp	729 Δ Cp	730 Δ Cp	731 Δ Cp	732 Δ Cp	733 Δ Cp	734 Δ Cp	735 Δ Cp	736 Δ Cp	737 Δ Cp	738 Δ Cp	739 Δ Cp	740 Δ Cp	741 Δ Cp	742 Δ Cp	743 Δ Cp	744 Δ Cp	745 Δ Cp	746 Δ Cp	747 Δ Cp	748 Δ Cp	749 Δ Cp	750 Δ Cp	751 Δ Cp	752 Δ Cp	753 Δ Cp	754 Δ Cp	755 Δ Cp	756 Δ Cp	757 Δ Cp	758 Δ Cp	759 Δ Cp	760 Δ Cp	761 Δ Cp	762 Δ Cp	763 Δ Cp	764 Δ Cp	765 Δ Cp	766 Δ Cp	767 Δ Cp	768 Δ Cp	769 Δ Cp	770 Δ Cp	771 Δ Cp	772 Δ Cp	773 Δ Cp	774 Δ Cp	775 Δ Cp	776 Δ Cp	777 Δ Cp	778 Δ Cp	779 Δ Cp	780 Δ Cp	781 Δ Cp	782 Δ Cp	783 Δ Cp	784 Δ Cp	785 Δ Cp	786 Δ Cp	787 Δ Cp	788 Δ Cp	789 Δ Cp	790 Δ Cp	791 Δ Cp	792 Δ Cp	793 Δ Cp	794 Δ Cp	795 Δ Cp	796 Δ Cp	797 Δ Cp	798 Δ Cp	799 Δ Cp	800 Δ Cp	801 Δ Cp	802 Δ Cp	803 Δ Cp	804 Δ Cp	805 Δ Cp	806 Δ Cp	807 Δ Cp	808 Δ Cp	809 Δ Cp	810 Δ Cp	811 Δ Cp	812 Δ Cp	813 Δ Cp	814 Δ Cp	815 Δ Cp	816 Δ Cp	817 Δ Cp	818 Δ Cp	819 Δ Cp	820 Δ Cp	821 Δ Cp	822 Δ Cp	823 Δ Cp	824 Δ Cp	825 Δ Cp	826 Δ Cp	827 Δ Cp	828 Δ Cp	829 Δ Cp	830 Δ Cp	831 Δ Cp	832 Δ Cp	833 Δ Cp	834 Δ Cp	835 Δ Cp	836 Δ Cp	837 Δ Cp	838 Δ Cp	839 Δ Cp	840 Δ Cp	841 Δ Cp	842 Δ Cp	843 Δ Cp	844 Δ Cp	845 Δ Cp	846 Δ Cp	847 Δ Cp	848 Δ Cp	849 Δ Cp	850 Δ Cp	851 Δ Cp	852 Δ Cp	853 Δ Cp	854 Δ Cp	855 Δ Cp	856 Δ Cp	857 Δ Cp	858 Δ Cp	859 Δ Cp	860 Δ Cp	861 Δ Cp	862 Δ Cp	863 Δ Cp	864 Δ Cp	865 Δ Cp	866 Δ Cp	867 Δ Cp	868 Δ Cp	869 Δ Cp	870 Δ Cp	871 Δ Cp	872 Δ Cp	873 Δ Cp	874 Δ Cp	875 Δ Cp	876 Δ Cp	877 Δ Cp	878 Δ Cp	879 Δ Cp	880 Δ Cp	881 Δ Cp	882 Δ Cp	883 Δ Cp	884 Δ Cp	885 Δ Cp	886 Δ Cp	887 Δ Cp	888 Δ Cp	889 Δ Cp	890 Δ Cp	891 Δ Cp	892 Δ Cp	893 Δ Cp	894 Δ Cp	895 Δ Cp	896 Δ Cp	897 Δ Cp	898 Δ Cp	899 Δ Cp	900 Δ Cp	901 Δ Cp	902 Δ Cp	903 Δ Cp	904 Δ Cp	905 Δ Cp	906 Δ Cp	907 Δ Cp	908 Δ Cp	909 Δ Cp	910 Δ Cp	911 Δ Cp	912 Δ Cp	913 Δ Cp	914 Δ Cp	915 Δ Cp	916 Δ Cp	917 Δ Cp	918 Δ Cp	919 Δ Cp	920 Δ Cp	921 Δ Cp	922 Δ Cp	923 Δ Cp	924 Δ Cp	925 Δ Cp	926 Δ Cp	927 Δ Cp	928 Δ Cp	929 Δ Cp	930 Δ Cp	931 Δ Cp	932 Δ Cp	933 Δ Cp	934 Δ Cp	935 Δ Cp	936 Δ Cp	937 Δ Cp	938 Δ Cp	939 Δ Cp	940 Δ Cp	941 Δ Cp	942 Δ Cp	943 Δ Cp	944 Δ Cp	945 Δ Cp	946 Δ Cp	947 Δ Cp	948 Δ Cp	949 Δ Cp	950 Δ Cp	951 Δ Cp	952 Δ Cp	953 Δ Cp	954 Δ Cp	955 Δ Cp	956 Δ Cp	957 Δ Cp	958 Δ Cp	959 Δ Cp	960 Δ Cp	961 Δ Cp	962 Δ Cp	963 Δ Cp	964 Δ Cp	965 Δ Cp	966 Δ Cp	967 Δ Cp	968 Δ Cp	969 Δ Cp	970 Δ Cp	971 Δ Cp	972 Δ Cp	973 Δ Cp	974 Δ Cp	975 Δ Cp	976 Δ Cp	977 Δ Cp	978 Δ Cp	979 Δ Cp	980 Δ Cp	981 Δ Cp	982 Δ Cp	983 Δ Cp	984 Δ Cp	985 Δ Cp	986 Δ Cp	987 Δ Cp	988 Δ Cp	989 Δ Cp	990 Δ Cp	991 Δ Cp	992 Δ Cp	993 Δ Cp	994 Δ Cp	995 Δ Cp	996 Δ Cp	997 Δ Cp	998 Δ Cp	999 Δ Cp	1000 Δ Cp
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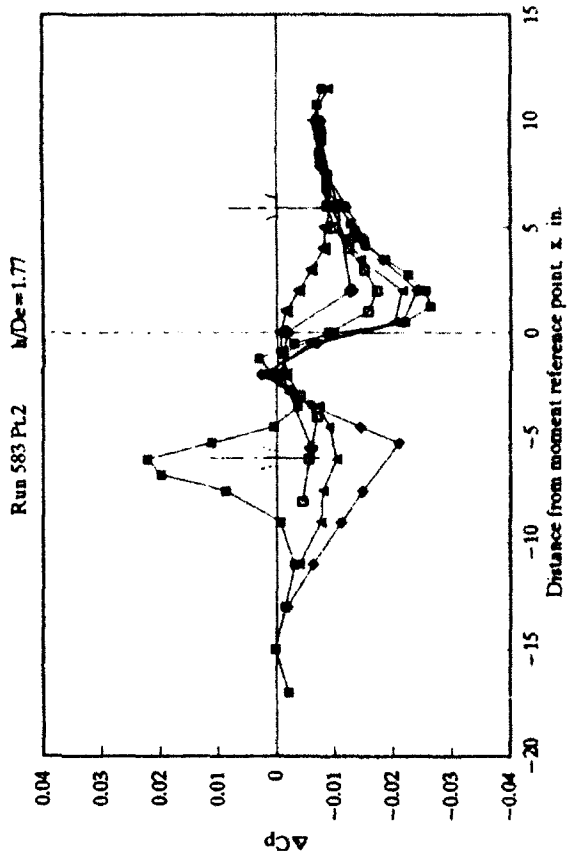
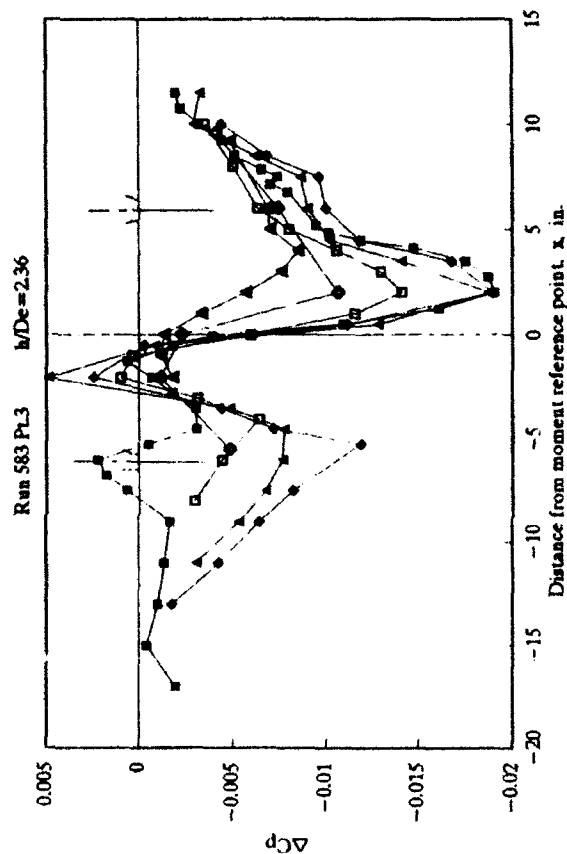
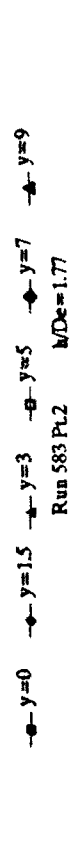


FIG. B-64-a Chordwise distributions of jet induced pressure at selected heights - Configuration III - All Jets  
NPR=2 Run 583  $Ve=.06$

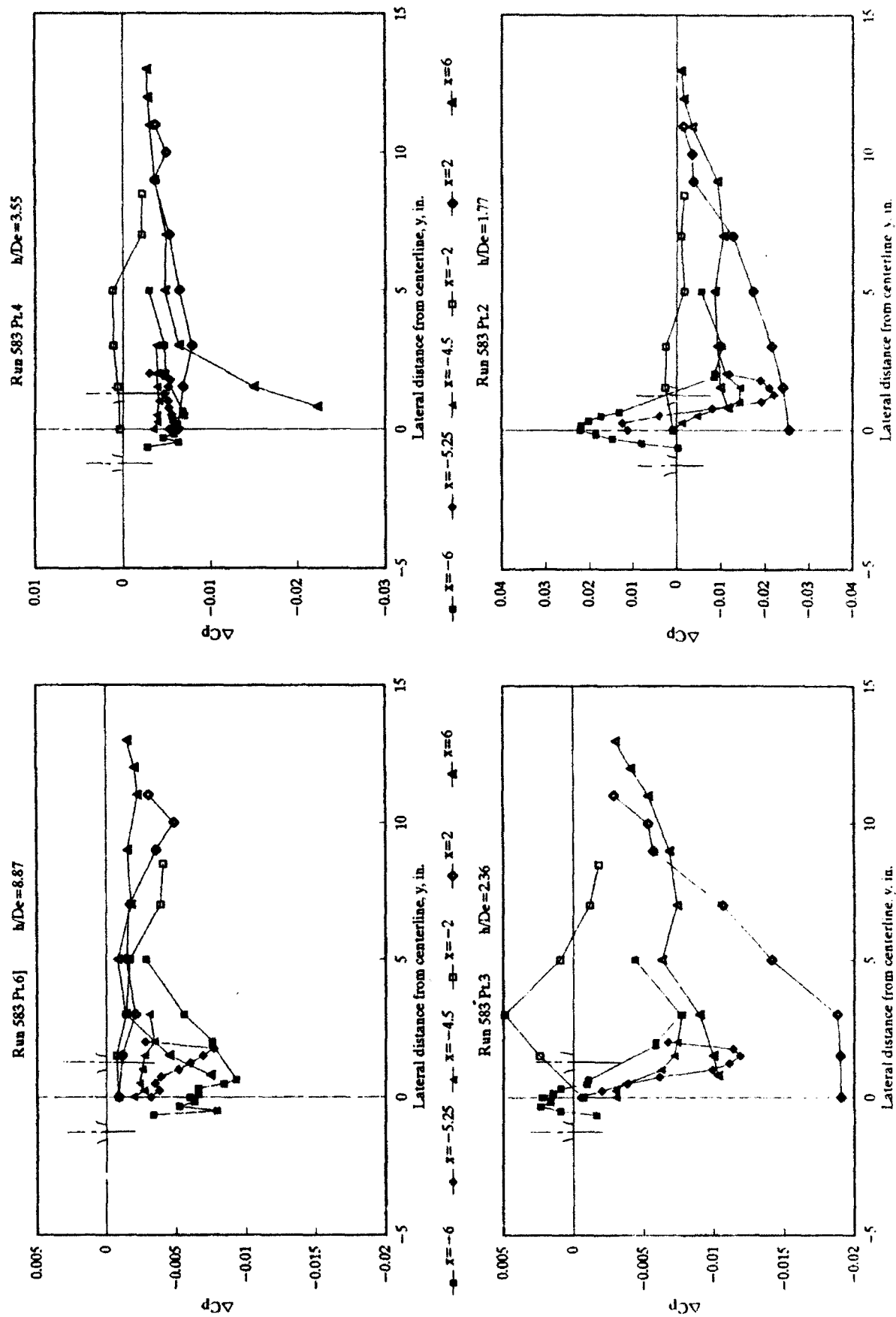


Fig. 8-64-b Spanwise distributions of jet induced pressure at selected heights - Configuration III - All jets  
NPR=2 Run 583  $Ve=.06$



Run 584

	Force	Moment
Balance	$\frac{dV}{dt} =$	$\frac{dM}{dt} =$
Pressure	$\frac{dV}{dt} =$	$\frac{dM}{dt} =$
Balance	$\frac{dV}{dt} =$	$\frac{dM}{dt} =$
Pressure	$\frac{dV}{dt} =$	$\frac{dM}{dt} =$

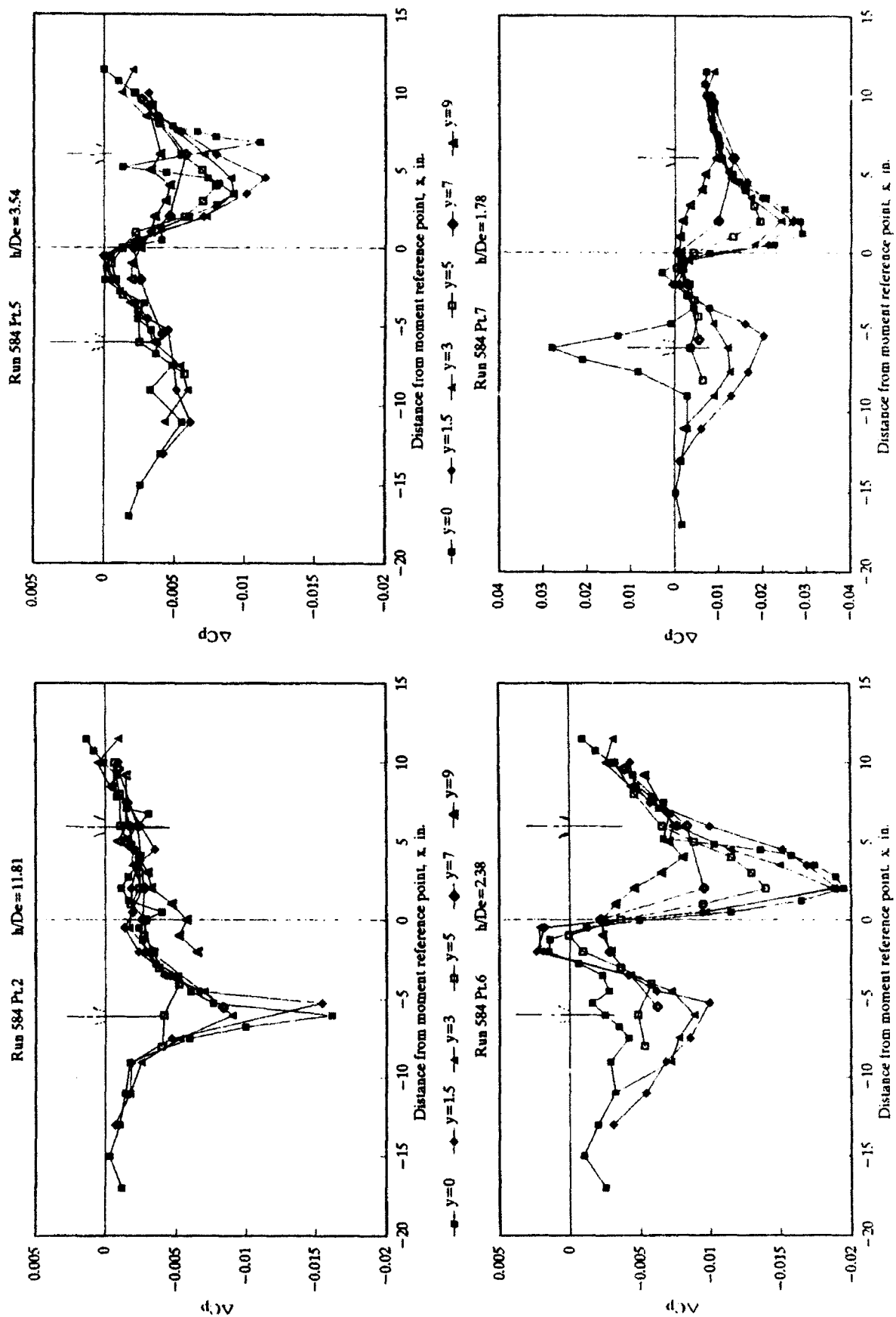


Fig. B-65-a Chordwise distributions of jet induced pressure at selected heights - Configuration III - All Jets

Run 584  $Ve=.08$   $NPR=2$

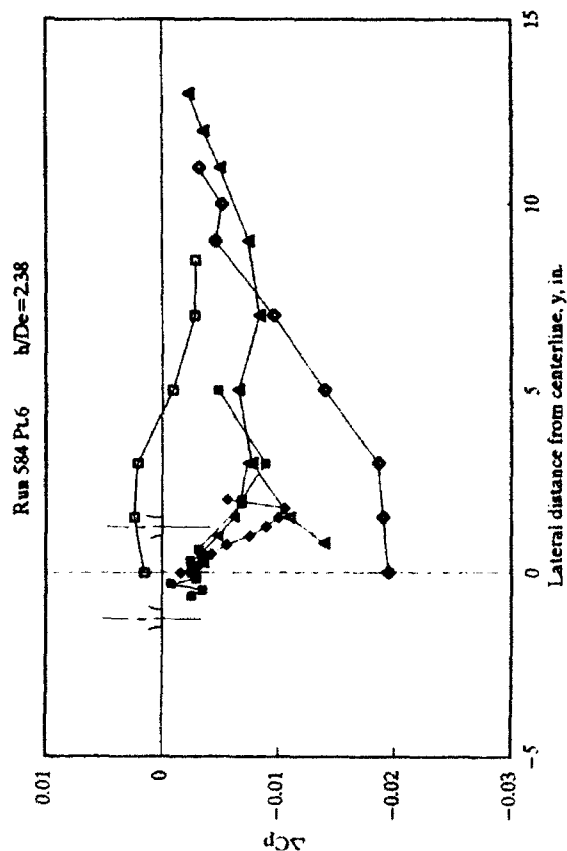
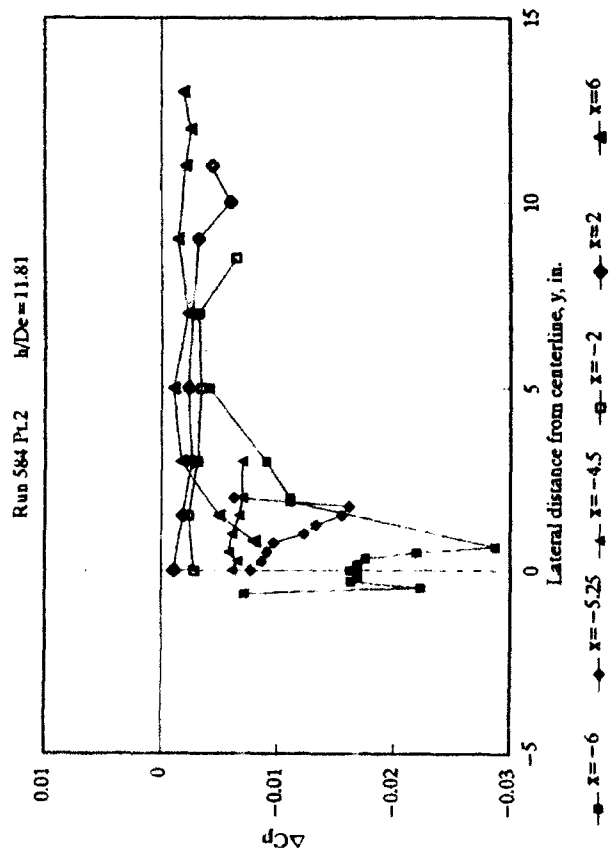
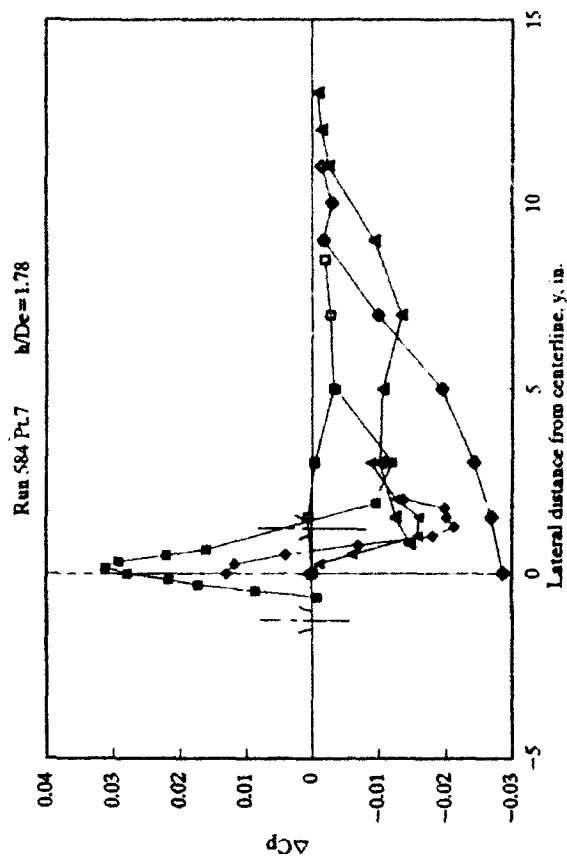
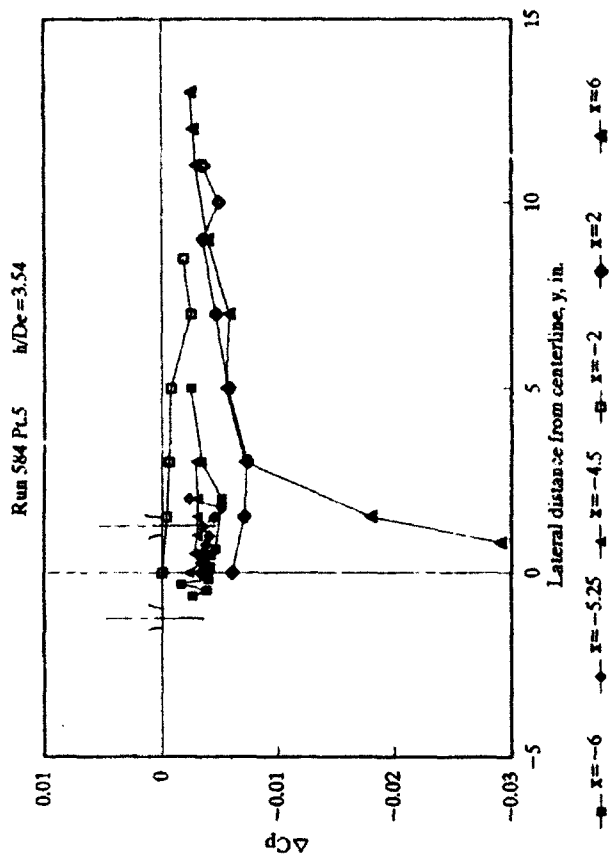


Fig.B-65-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration III - All Jets  
NPR=2 Run 584 Ver.08

Run 585

Force and Moment	$NDe =$	$dLT =$	$dLT =$	$dWTDx =$	$dWTDx =$
Balance					
Pressure					
Balance					
Pressure					

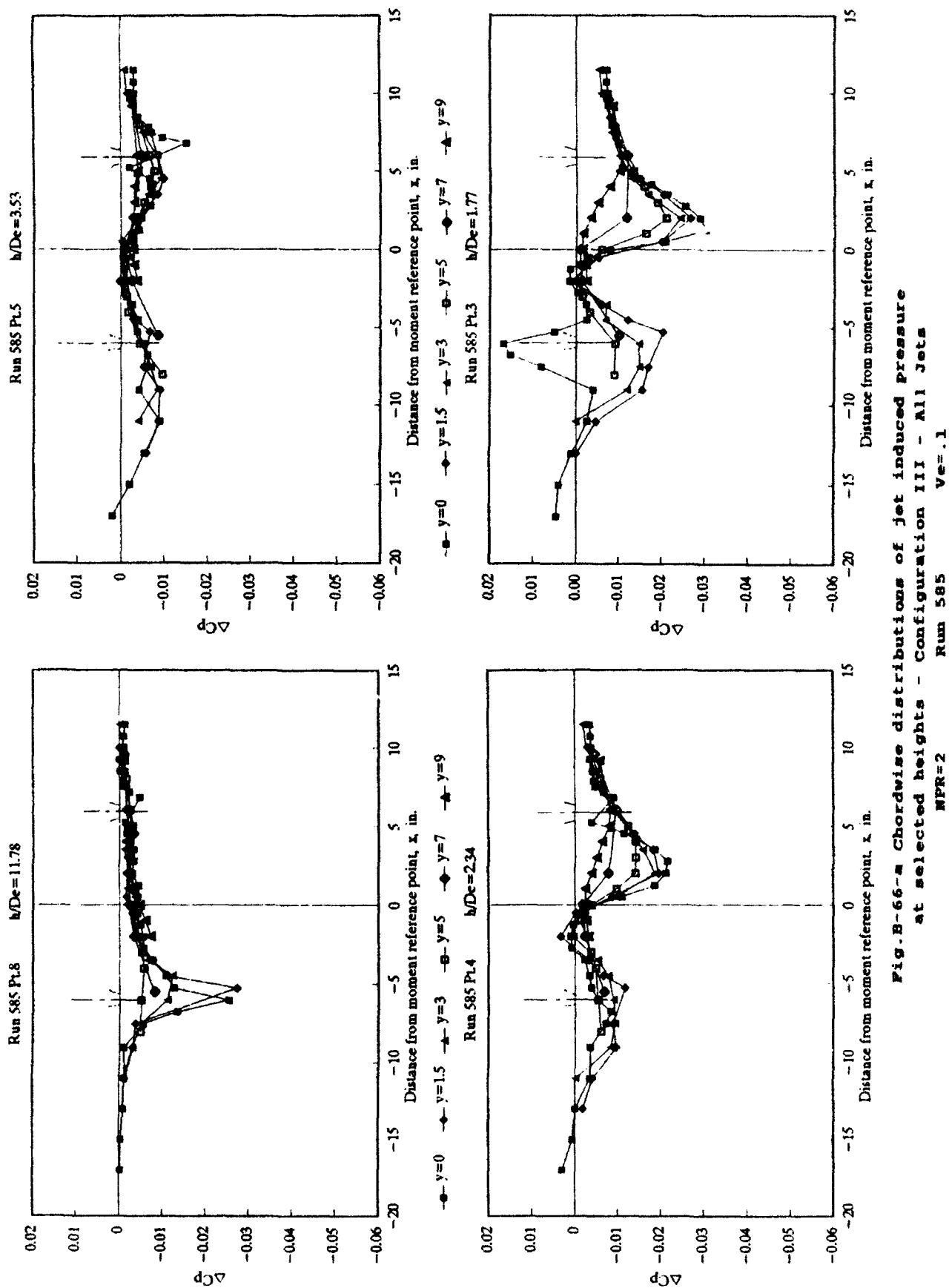


Fig.B-66-a Chordwise distributions of jet induced pressure

at selected heights - Configuration III - All Jets

MFR=2 Run 585  $Ve=.1$

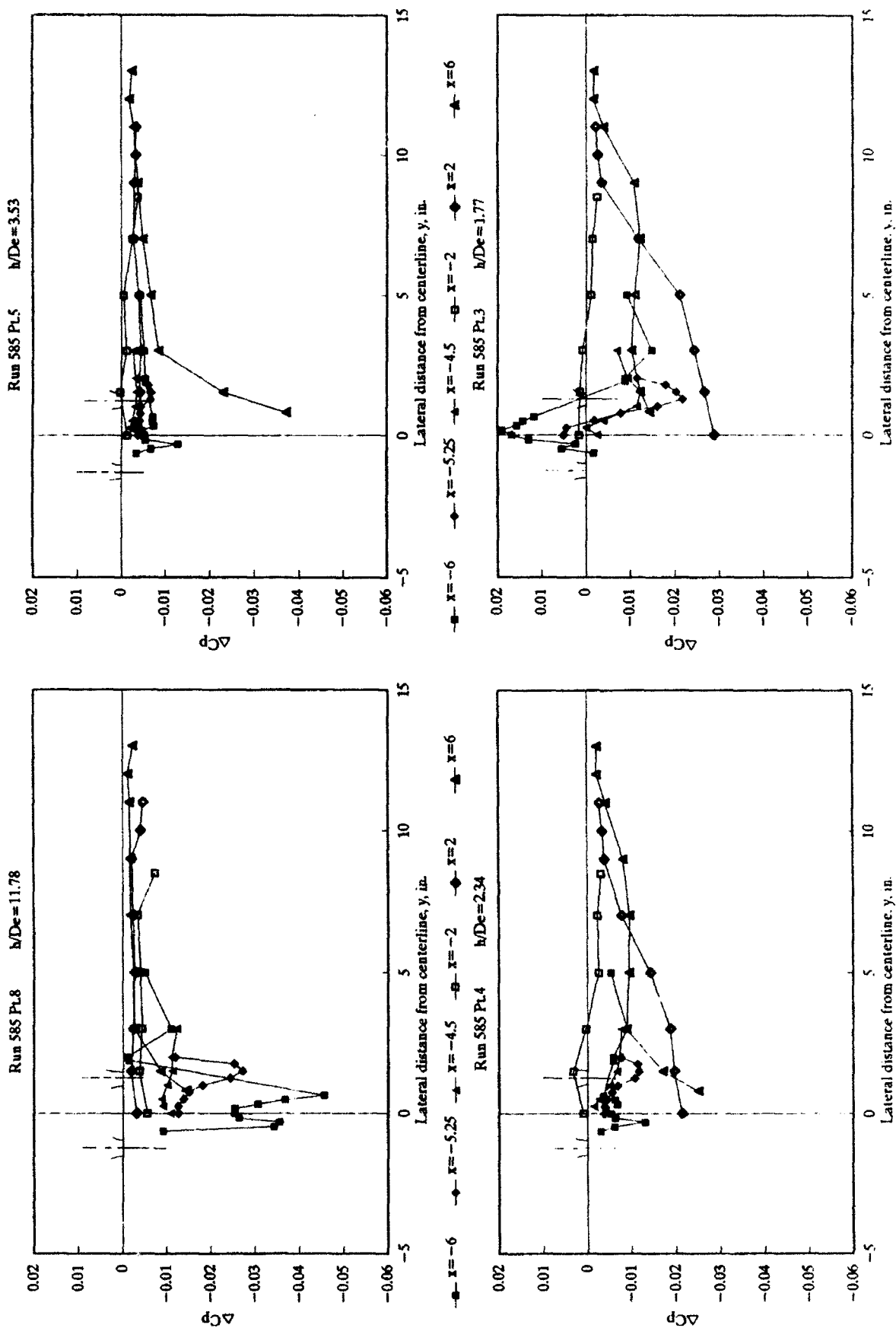


Fig. B-66-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration III - All Jets  
NPR=2 Run 585  $Ve=.1$

TABLE B-67 JET INDUCED PRESSURE INCREMENTS  
Configuration III - All Jets - NPR=2  
Run 586  
V=1.5

Point	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
N/Os	24.84	11.77	8.83	5.86	3.51	1.75	1.21	0.83	0.58	0.40	0.28	0.19	0.13	0.09	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01</

Force and Moment Summary  
NDe = 24.84  
Balance d/L = -0.480  
Pressure d/L = -0.471  
Balance dm/De = -0.254  
Pressure dm/De = 0.088

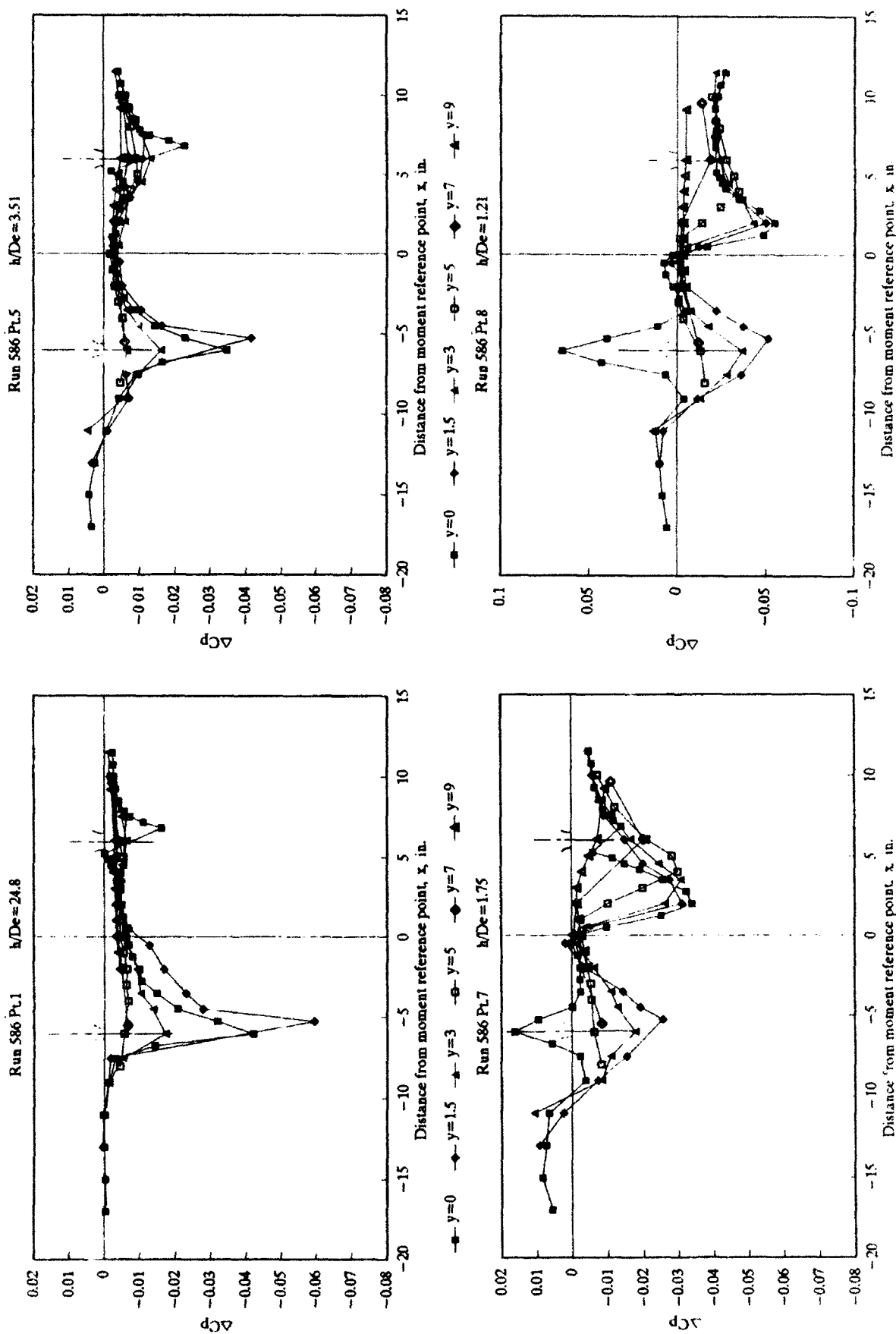


Fig.B-67-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration III - All Jets  
NPR=2 Run 586  $Ve=.15$



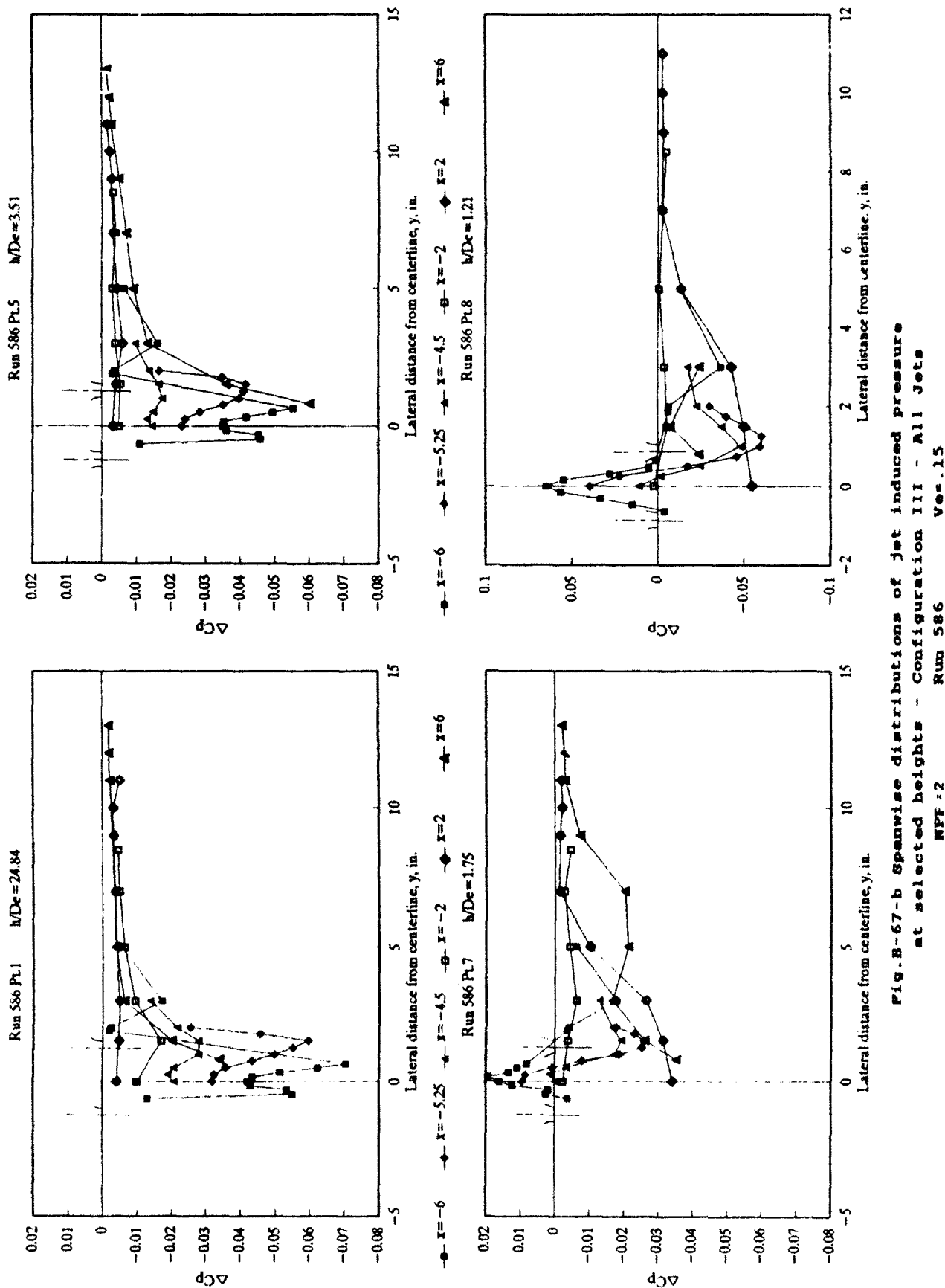


Fig. B-67-b Spanwise distributions of jet induced pressure at selected heights - Configuration III - All Jets

NFF-2 Run 586  $Ve = .15$

TABLE B-68 JET INDUCED PRESSURE INCREMENTS  
Configuration III - All Jets - NPR=2  
Run 587 Ve=.2

Point NOs =	y	1		2			
		x	$\Delta C_p$	x	$\Delta C_p$		
-0.64	-6	-0.0090	-0.0070	1.5	10	-0.0184	-0.0091
-0.48	-6	0.0079	-0.0166	1.5	11.5	-0.0091	-0.0043
-0.32	-6	0.0246	-0.0216	1.75	-8.25	-0.0408	-0.0216
-0.16	-6	0.0814	-0.0196	1.86	-6	-0.0097	-0.0052
0	-17	0.0074	0.0086	2	-6	-0.0091	-0.0086
0	-16	0.0111	0.0101	2	-5.25	-0.0319	-0.0189
0	-13	0.0477	0.0480	2	-4.5	-0.0285	-0.0180
0	-11	0.0815	0.0181	3	-11	0.0291	0.0371
0	-9	-0.0011	-0.0086	3	-9	-0.0097	-0.0086
0	-7.5	0.0030	-0.0182	3	-7.5	-0.0175	-0.0182
0	-6.75	0.0009	-0.0170	3	-6	-0.0029	-0.0137
0	-6	0.0625	-0.0148	3	-4.5	-0.0234	-0.0129
0	-5.25	0.0412	-0.0100	3	-3.5	-0.0153	-0.0136
0	-4.5	0.0060	-0.0076	3	-2	-0.0082	-0.0084
0	-3.5	0.0077	-0.0052	3	-0.5	-0.0028	-0.0052
0	-2.75	-0.0071	-0.0034	3	0.5	-0.0037	-0.0029
0	-2	-0.0016	-0.0036	3	2	-0.0082	-0.0101
0	-1.25	0.0020	-0.0017	3	3.5	-0.0472	-0.0342
0	-0.5	0.0032	0.0016	3	4.5	-0.0366	-0.0382
0	0	0.0021	0.0030	3	6	-0.0270	-0.0286
0	0.5	-0.0122	0.0028	3	7.5	-0.0222	-0.0182
0	1.25	-0.0430	-0.0032	3	8.5	-0.0207	-0.0121
0	2	-0.0669	-0.0187	3	10	-0.0181	-0.0074
0	2.75	-0.0489	-0.0353	3	11.5	-0.0167	-0.0051
0	3.5	-0.0070	-0.0382	6	-6	-0.0086	-0.0082
0	4.5	-0.0278	-0.0291	6	-6	-0.0133	-0.0086
0	4.5	-0.0250	-0.0201	6	-4	-0.0078	-0.0044
0	4.5	-0.0222	-0.0108	6	-2	-0.0060	-0.0026
0	5.2	-0.0182	-0.0038	6	-1	-0.0020	-0.0046
0	6.5	-0.0225	-0.0316	6	0	0.0008	-0.0032
0	7.15	-0.0219	-0.0393	6	1	0.0033	-0.0046
0	7.5	-0.0220	-0.0230	6	2	0.0039	-0.0089
0	7.85	-0.0213	-0.0178	6	3	-0.0104	-0.0087
0	8.5	-0.0209	-0.0132	6	4	-0.0417	-0.0232
0	9.25	-0.0202	-0.0108	6	5	-0.0430	-0.0200
0	10	-0.0188	-0.0086	6	6	-0.0342	-0.0271
0	10.75	-0.0188	-0.0070	6	8	-0.0253	-0.0172
0	11.5	-0.0183	-0.0053	6	10	-0.0178	-0.0087
0.16	-6	0.0816	-0.0125	6	-5.5	-0.0142	-0.0075
0.25	-5.25	0.0276	-0.0084	7	-2	-0.0065	-0.0099
0.32	-6	-0.0008	-0.0087	7	0	-0.0012	-0.0031
0.46	-6	0.0088	-0.0180	7	2	-0.0008	-0.0044
0.5	-6.25	-0.0116	-0.0152	7	6	-0.0182	-0.0144
0.5	-4.5	-0.0223	-0.0109	7	8	-0.0184	-0.0125
0.64	-6	0.0007	-0.0121	8	-2	-0.0078	-0.0037
0.75	-5.25	-0.0089	-0.0170	8	-1	-0.0081	-0.0030
0.8	6	-0.0538	-0.0484	8	0	0.0087	-0.0039
1	-5.25	-0.0889	-0.0213	8	1	-0.0099	-0.0047
1	-4.5	-0.0464	-0.0186	8	2	-0.0088	-0.0046
1.25	-5.25	-0.0664	-0.0254	8	3	-0.0023	-0.0050
1.5	-13	0.0148	0.0136	8	4	-0.0032	-0.0081
1.5	-11	0.0147	0.0102	8	5	-0.0033	-0.0056
1.5	-9	-0.0026	-0.0183	8	6	-0.0084	-0.0089
1.5	-7.5	-0.0846	-0.0177	8	9.2	-0.0071	-0.0084
1.5	-5.25	-0.0484	-0.0847	10	2	-0.0088	-0.0038
1.5	-4.5	-0.0379	-0.0200	11	2	-0.0016	-0.0014
1.5	-3.5	-0.0343	-0.0162	11	6	-0.0040	-0.0039
1.5	-2	-0.0087	-0.0084	12	6	-0.0042	-0.0033
1.5	-0.8	0.0006	0.0017	12	8	-0.0058	-0.0032
1.5	0.5	-0.0070	0.0037	13	6	-0.0029	-0.0019
1.5	2	-0.0622	-0.0136				
1.5	3.5	-0.0046	-0.0084				
1.5	4.5	-0.0284	-0.0010				
1.5	6	-0.0104	-0.0089				
1.5	7.5	-0.0271	-0.0171				
1.5	8.5	-0.0200	-0.0130				

Force and Moment Summary

NOs =	1.26	1.77	1.77
Balance	-0.009	-0.006	1.77
dL/J =	-1.085	-0.762	-0.762
Pressure	2.340	1.946	2.340
Balance	2.340	2.341	2.318
dM/D0 =	3.301	2.318	2.318
Pressure	3.301	2.318	2.318

Force and Moment Summary

NOs =	1.26	1.77
Balance $d/L$ =	-0.689	-0.616
Pressure $d/L$ =	-1.086	-0.782
Balance $dM/Ds$ =	2.348	1.946
Pressure $dM/Ds$ =	3.331	2.316

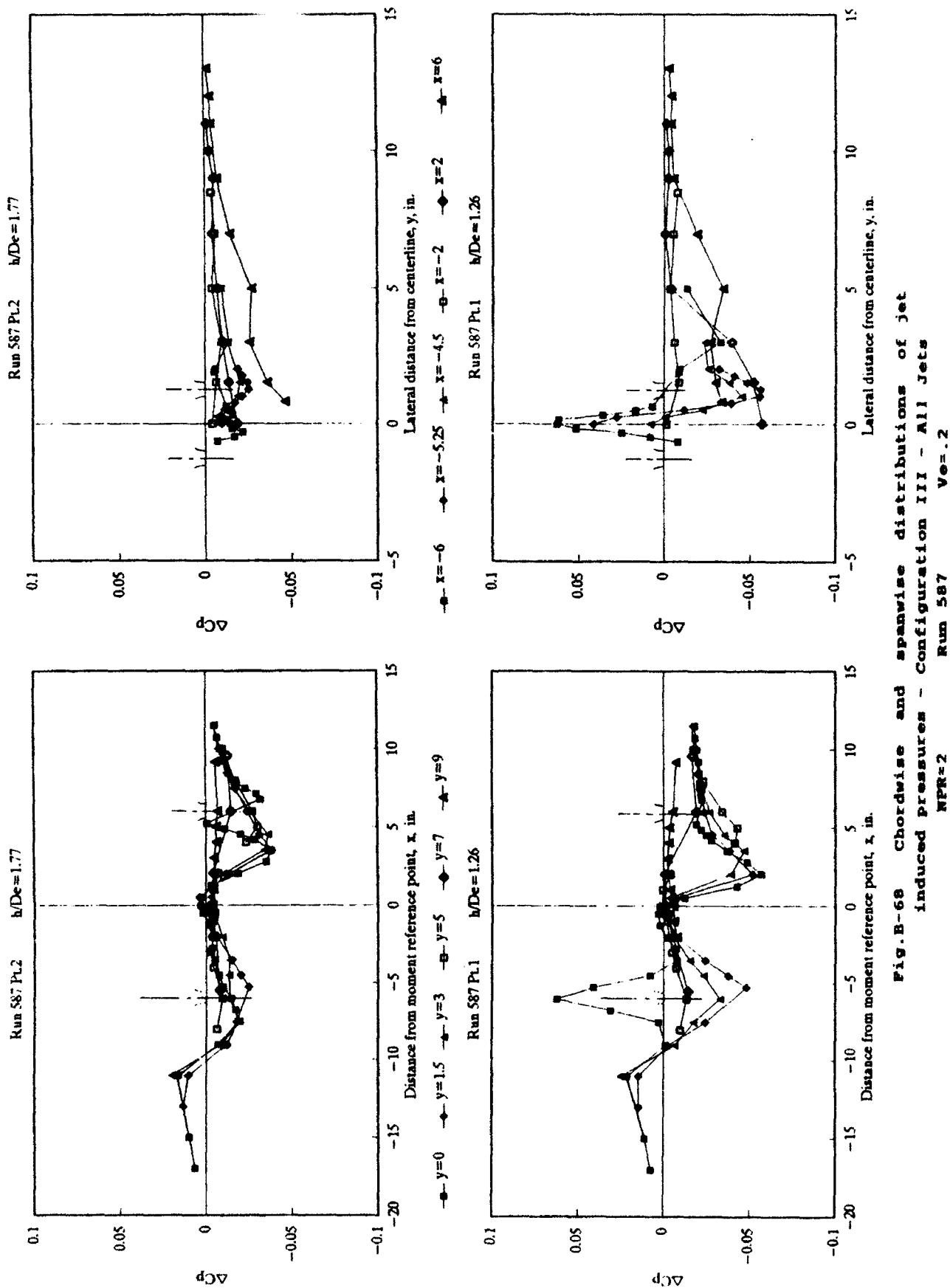


Fig.B-68 Chordwise and spanwise distributions of jet induced pressures - Configuration III - All Jets  
NPR=2 Run 587  $Ve=.2$

TABLE B-69 JET INDUCED PRESSURE INCREMENTS  
Configuration IV - All Jets - NPR=2

Run 565												
Ve=0												
Port	NDA =	2	5	6	7	8	9	10	11	12	13	14
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
-0.84	-4	-0.0003	-0.0002	-0.0004	-0.0009	-0.0013	-0.0033	-0.0034	-0.0012	0.0028	0.0028	0.0028
-0.48	-4	-0.0004	-0.0003	-0.0008	-0.0027	-0.0041	-0.0138	-0.0129	-0.0063	0.0050	0.0050	0.0050
-0.32	-4	-0.0011	-0.0036	-0.0042	-0.0060	-0.0072	-0.0163	-0.0165	-0.0100	0.0247	0.0247	0.0247
-0.16	-4	-0.0002	-0.0002	-0.0005	-0.0020	-0.0030	-0.0118	-0.0110	-0.0068	0.0229	0.0229	0.0229
0	-18	0.0000	0.0002	0.0001	0.0001	0.0000	0.0000	0.0002	0.0004	0.0008	0.0003	0.0003
0	-13	-0.0001	-0.0001	-0.0000	-0.0002	-0.0001	-0.0003	-0.0004	0.0010	0.0004	0.0004	0.0004
0	-11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0	-9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0	-7	-0.0002	0.0000	-0.0001	-0.0001	-0.0007	-0.0014	-0.0018	-0.0007	-0.0020	-0.0020	-0.0020
0	-5.5	-0.0001	0.0002	0.0001	-0.0009	-0.0011	-0.0049	-0.0065	-0.0037	0.0233	0.0233	0.0233
0	-4.75	-0.0000	0.0000	-0.0001	-0.0014	-0.0018	-0.0073	-0.0094	-0.0013	0.0279	0.0279	0.0279
0	-4	-0.0000	-0.0000	-0.0004	-0.0018	-0.0027	-0.0114	-0.0104	0.0020	0.0269	0.0269	0.0269
0	-3.25	-0.0002	-0.0003	-0.0008	-0.0027	-0.0048	-0.0098	-0.0090	0.0423	0.0423	0.0423	0.0423
0	-2.5	-0.0004	-0.0007	-0.0011	-0.0010	-0.0018	-0.0054	-0.0081	0.0228	0.0228	0.0228	0.0228
0	-1.5	-0.0003	-0.0006	-0.0008	-0.0008	-0.0030	-0.0098	-0.0145	0.0105	0.0102	0.0102	0.0102
0	-0.75	-0.0000	0.0003	0.0002	-0.0001	0.0009	0.0133	0.0282	0.0228	0.0194	0.0194	0.0194
0	0	0.0001	0.0004	0.0005	0.0004	0.0024	0.0113	0.0169	0.0227	0.0444	0.0444	0.0444
0	0.75	0.0001	0.0004	0.0006	-0.0007	0.0011	0.0047	-0.0037	-0.0242	-0.0894	-0.0894	-0.0894
0	1.5	0.0002	0.0001	-0.0002	-0.0008	-0.0002	-0.0038	-0.0195	-0.0341	-0.0847	-0.0847	-0.0847
0	1.95	0.0001	0.0001	0.0001	-0.0003	-0.0010	-0.0080	-0.0185	-0.0328	-0.0433	-0.0433	-0.0433
0	2.15	-0.0001	-0.0002	0.0001	-0.0005	-0.0020	-0.0076	-0.0185	-0.0316	-0.0369	-0.0369	-0.0369
0	2.5	0.0002	0.0003	0.0004	-0.0001	-0.0023	-0.0071	-0.0185	-0.0247	-0.0329	-0.0329	-0.0329
0	2.85	-0.0001	-0.0004	-0.0005	-0.0007	-0.0025	-0.0084	-0.0145	-0.0166	-0.0229	-0.0229	-0.0229
0	3.2	-0.0003	-0.0004	-0.0005	-0.0008	-0.0028	-0.0098	-0.0117	-0.0077	-0.0190	-0.0190	-0.0190
0	4.8	-0.0008	-0.0017	-0.0028	-0.0040	-0.0037	-0.0043	-0.0034	-0.0082	-0.0198	-0.0198	-0.0198
0	5.15	-0.0003	-0.0004	-0.0005	-0.0008	-0.0027	-0.0040	-0.0033	-0.0085	-0.0198	-0.0198	-0.0198
0	5.5	-0.0001	-0.0001	-0.0001	-0.0002	-0.0004	-0.0032	-0.0034	-0.0064	-0.0198	-0.0198	-0.0198
0	5.95	0.0001	0.0001	0.0001	-0.0001	-0.0002	-0.0004	-0.0005	-0.0008	-0.0198	-0.0198	-0.0198
0	6.5	0.0000	0.0000	0.0000	-0.0001	-0.0003	-0.0004	-0.0005	-0.0008	-0.0198	-0.0198	-0.0198
0	7.25	0.0000	0.0000	0.0000	-0.0001	-0.0003	-0.0004	-0.0005	-0.0008	-0.0198	-0.0198	-0.0198
0	8	-0.0001	-0.0001	-0.0002	-0.0003	-0.0005	-0.0008	-0.0009	-0.0012	-0.0015	-0.0015	-0.0015
0	8.75	-0.0001	-0.0001	-0.0002	-0.0003	-0.0005	-0.0008	-0.0009	-0.0012	-0.0015	-0.0015	-0.0015
0	9.5	-0.0001	-0.0001	-0.0002	-0.0003	-0.0005	-0.0008	-0.0009	-0.0012	-0.0015	-0.0015	-0.0015
0	10.5	-0.0002	-0.0003	-0.0004	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
0	11.25	-0.0003	-0.0004	-0.0005	-0.0006	-0.0008	-0.0010	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
0	12	-0.0002	-0.0003	-0.0004	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
0	12.75	-0.0001	-0.0002	-0.0003	-0.0004	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0015	-0.0015
0	13.5	-0.0001	-0.0002	-0.0003	-0.0004	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0015	-0.0015
0.16	-4	-0.0001	-0.0002	-0.0003	-0.0004	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0015	-0.0015
0.25	-2.5	-0.0002	-0.0003	-0.0004	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
0.32	-4	-0.0005	-0.0011	-0.0014	-0.0024	-0.0034	-0.0050	-0.0064	-0.0084	-0.0114	-0.0114	-0.0114
0.48	-4	-0.0008	-0.0019	-0.0024	-0.0034	-0.0044	-0.0060	-0.0074	-0.0094	-0.0124	-0.0124	-0.0124
0.5	-3.25	-0.0003	-0.0003	-0.0006	-0.0007	-0.0009	-0.0016	-0.0024	-0.0034	-0.0044	-0.0044	-0.0044
0.5	-2.5	-0.0004	-0.0003	-0.0006	-0.0008	-0.0010	-0.0017	-0.0024	-0.0034	-0.0044	-0.0044	-0.0044
0.64	-1	-0.0004	-0.0001	-0.0004	-0.0008	-0.0012	-0.0017	-0.0024	-0.0034	-0.0044	-0.0044	-0.0044
0.75	-3.25	-0.0008	-0.0008	-0.0010	-0.0012	-0.0015	-0.0018	-0.0024	-0.0034	-0.0044	-0.0044	-0.0044
0.8	-4	-0.0008	-0.0008	-0.0010	-0.0012	-0.0015	-0.0018	-0.0024	-0.0034	-0.0044	-0.0044	-0.0044
1	-3.25	-0.0007	-0.0004	-0.0008	-0.0010	-0.0012	-0.0015	-0.0018	-0.0024	-0.0034	-0.0034	-0.0034
1	-2.5	-0.0005	-0.0005	-0.0008	-0.0010	-0.0012	-0.0015	-0.0018	-0.0024	-0.0034	-0.0034	-0.0034
1.25	-3.25	-0.0011	-0.0014	-0.0018	-0.0022	-0.0024	-0.0032	-0.0034	-0.0044	-0.0054	-0.0054	-0.0054
1.5	-11	-0.0000	-0.0003	-0.0005	-0.0008	-0.0010	-0.0012	-0.0015	-0.0018	-0.0024	-0.0024	-0.0024
1.5	-9	-0.0001	-0.0001	-0.0003	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
1.5	-7	-0.0001	-0.0001	-0.0003	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
1.5	-5.5	-0.0000	0.0000	-0.0002	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
1.5	-3.25	-0.0011	-0.0013	-0.0016	-0.0019	-0.0022	-0.0024	-0.0027	-0.0034	-0.0044	-0.0044	-0.0044
1.5	-1.5	-0.0003	-0.0001	-0.0003	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
1.5	-0.75	-0.0003	-0.0001	-0.0003	-0.0005	-0.0007	-0.0009	-0.0012	-0.0015	-0.0018	-0.0018	-0.0018
1.5	0	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
1.5	0.75	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0010	0.0010
1.5	1.5	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0010	0.0010
1.5	2.5	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0010	0.0010	0.0010
1.5	3.5	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010
1.5	4.5	0.0005	0.0006	0.0007	0.0008	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
1.5	5.5	0.0006	0.0007	0.0008	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
1.5	6.5	0.0007	0.0008	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
1.5	7.5	0.0008	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
1.5	8.5	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
1.5	9.5	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
1.5	10.5	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011

Force and Moment Summary  
NDA = 24.87  
Balance d.T = -0.015  
Pressure d.T = -0.023  
Balance dM/Da = 0.028  
Pressure dM/Da = -0.000

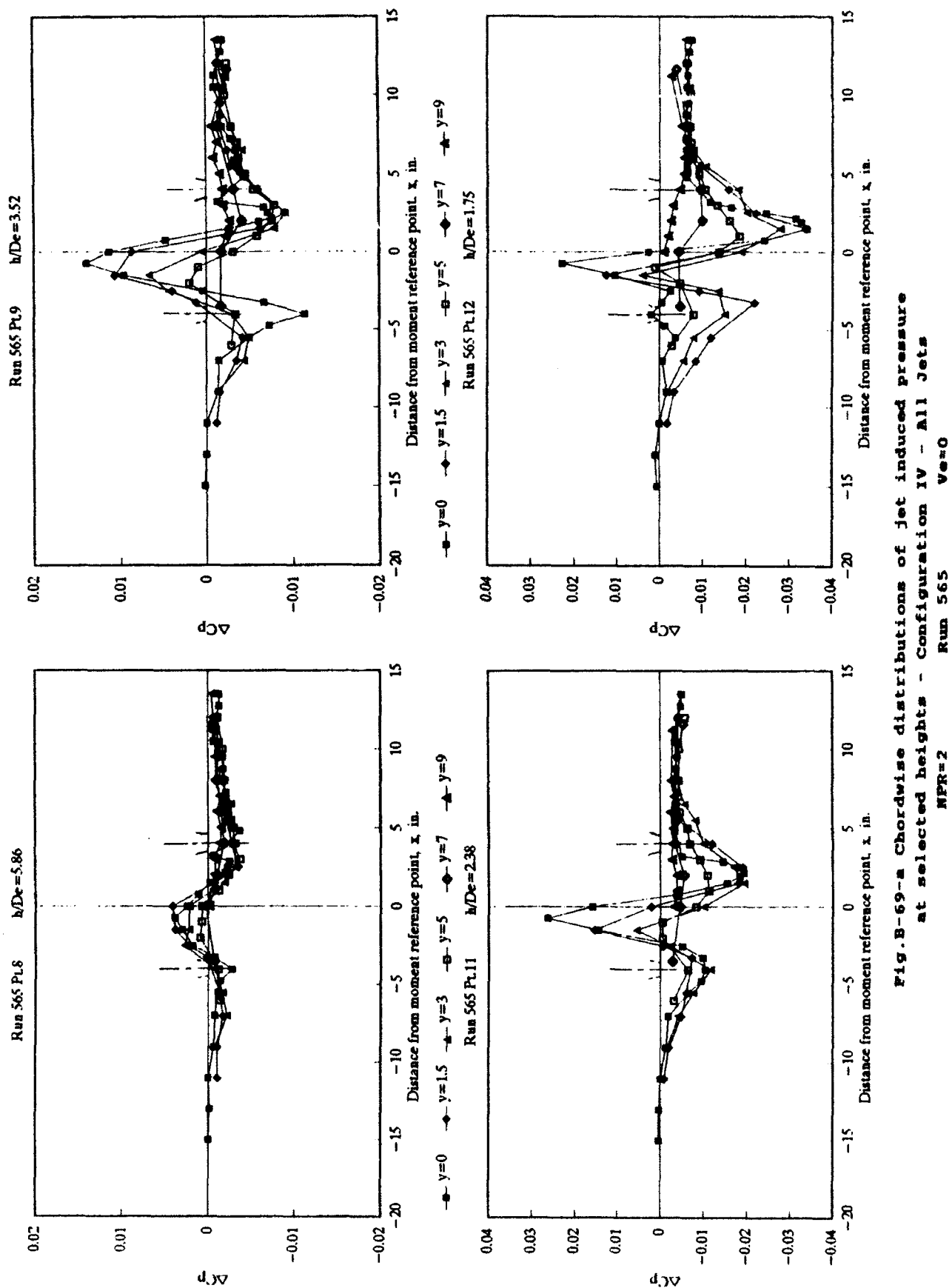


Fig.B-69-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
MFR=2 Run 565  $V_e=0$

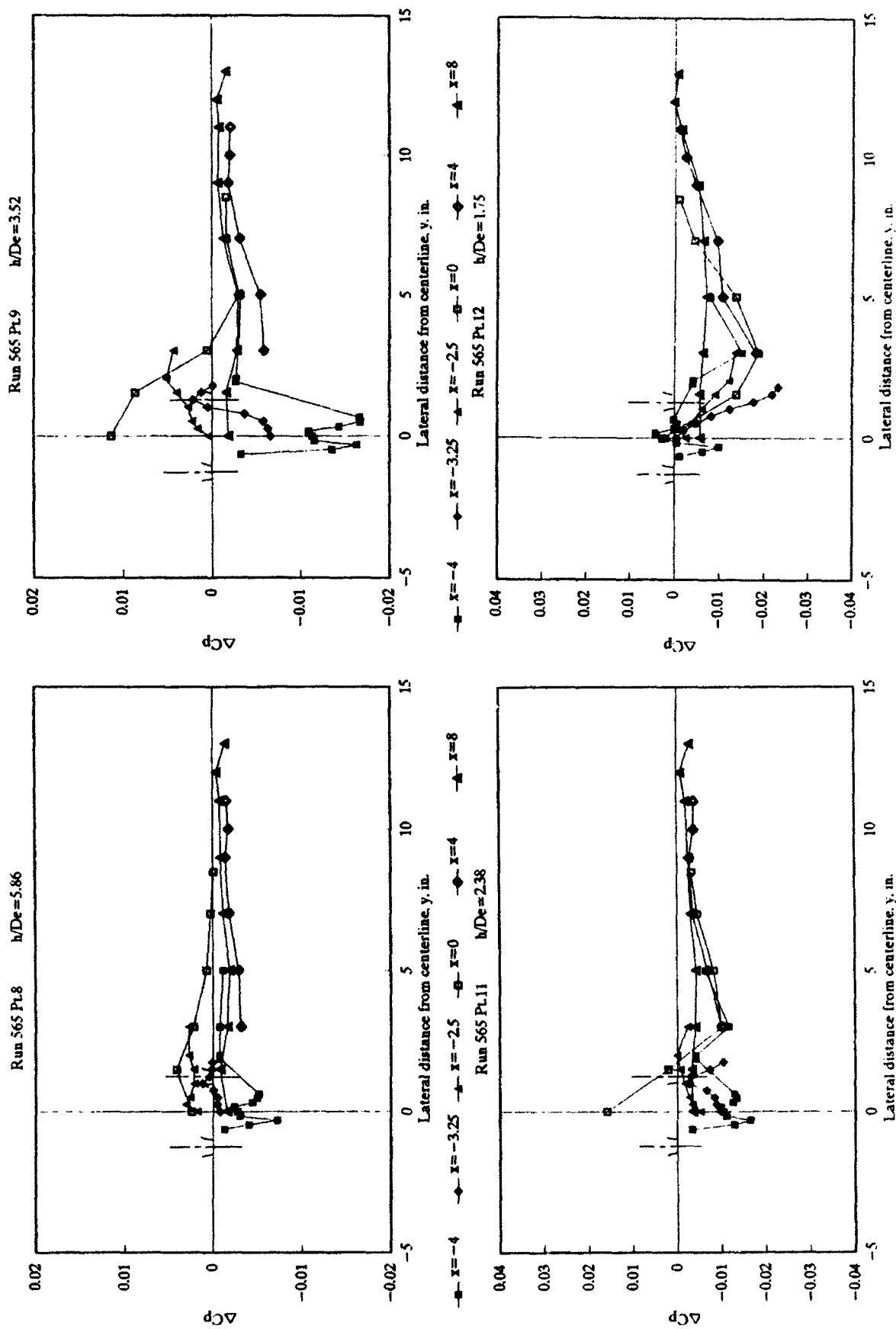


Fig. B-69-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
Run 565  $MPR=2$   $Ve=0$

TABLE B-70 JET INDUCED PRESSURE INCREMENTS  
Configuration IV - All Jets - NPR=2

Run 566 Ve=0.2

Part	1	2	3	4	5	6	7	8	9
NDA =	1.36	1.76	2.35	3.52	5.83	8.87	11.74	24.43	
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
-0.64	-4	0.0015	-0.0010	-0.0037	-0.0030	-0.0011	-0.0014	-0.0006	
-0.48	-4	0.0028	-0.0050	-0.0144	-0.0122	-0.0033	-0.0038	-0.0021	
-0.32	-4	0.0085	-0.0100	-0.0195	-0.0171	-0.0081	-0.0082	-0.0074	
-0.16	-4	0.0313	0.0002	-0.0123	-0.0103	-0.0027	-0.0030	-0.0016	
0	-15	0.0034	0.0005	-0.0005	-0.0001	-0.0008	-0.0004	-0.0001	
0	-13	0.0012	0.0007	-0.0002	-0.0004	-0.0005	-0.0004	-0.0002	
0	-11	0.0008	0.0008	-0.0008	-0.0008	-0.0005	-0.0005	-0.0004	
0	-9	0.0007	-0.0010	-0.0017	-0.0015	-0.0013	-0.0008	-0.0006	
0	-7	0.0028	-0.0007	-0.0022	-0.0011	-0.0005	-0.0001	-0.0001	
0	-5.5	0.0136	-0.0005	-0.0097	-0.0048	-0.0017	-0.0010	-0.0005	
0	-4.75	0.0310	-0.0008	-0.0089	-0.0063	-0.0028	-0.0025	-0.0015	
0	-4	0.0462	0.0012	-0.0116	-0.0098	-0.0028	-0.0029	-0.0018	
0	-3.25	0.0800	0.0005	-0.0087	-0.0067	-0.0020	-0.0011	-0.0007	
0	-2.5	0.0820	-0.0017	-0.0045	-0.0021	-0.0007	-0.0008	-0.0004	
0	-1.5	0.0154	0.0107	0.0141	0.0093	0.0021	0.0018	0.0008	
0	-0.75	0.0184	0.0205	0.0240	0.0131	0.0018	0.0005	-0.0002	
0	0	-0.0319	0.0048	0.0137	0.0100	-0.0019	-0.0008	-0.0002	
0	0.75	0.0528	0.0232	0.0048	0.0028	0.0019	0.0007	-0.0006	
0	1.5	0.0490	-0.0238	-0.0188	-0.0038	-0.0020	-0.0007	-0.0003	
0	1.85	0.0365	-0.0238	-0.0190	-0.0085	-0.0020	-0.0007	-0.0004	
0	2.15	0.0303	-0.0336	-0.0207	-0.0085	-0.0018	-0.0008	-0.0005	
0	2.5	0.0228	-0.0274	-0.0182	-0.0090	-0.0015	-0.0005	-0.0003	
0	2.85	0.0231	-0.0187	-0.0152	-0.0086	-0.0020	-0.0011	-0.0005	
0	3.2	0.0220	-0.0111	-0.0047	-0.0002	-0.0002	-0.0014	-0.0011	
0	4.8	0.0111	-0.0058	-0.0036	-0.0045	-0.0021	-0.0013	-0.0012	
0	9.15	0.0125	-0.0067	-0.0040	-0.0043	-0.0013	-0.0014	-0.0008	
0	9.5	0.0125	-0.0061	-0.0037	-0.0030	-0.0008	-0.0006	-0.0002	
0	12	0.0111	-0.0061	-0.0029	-0.0004	-0.0002	0.0001	0.0001	
0	12.75	0.0091	-0.0062	-0.0034	-0.0007	-0.0004	0.0001	0.0001	
0	13.5	0.0074	-0.0071	-0.0036	-0.0006	-0.0001	0.0003	0.0003	
0	16	0.0061	-0.0068	-0.0038	-0.0034	-0.0011	-0.0008	-0.0003	
0	17.25	0.0058	-0.0068	-0.0032	-0.0029	-0.0011	-0.0004	-0.0003	
0	18.75	0.0050	-0.0066	-0.0029	-0.0018	-0.0008	-0.0002	-0.0001	
0	20	0.0048	-0.0066	-0.0028	-0.0016	-0.0008	-0.0002	-0.0001	
0	21.25	0.0046	-0.0066	-0.0027	-0.0015	-0.0008	-0.0002	-0.0001	
0	22.5	0.0044	-0.0064	-0.0025	-0.0013	-0.0007	-0.0002	-0.0001	
0	24	0.0043	-0.0064	-0.0024	-0.0012	-0.0007	-0.0002	-0.0001	
0	25.5	0.0041	-0.0063	-0.0023	-0.0011	-0.0006	-0.0002	-0.0001	
0	27	0.0040	-0.0063	-0.0022	-0.0010	-0.0006	-0.0002	-0.0001	
0	28.5	0.0039	-0.0063	-0.0021	-0.0009	-0.0006	-0.0002	-0.0001	
0	30	0.0038	-0.0063	-0.0020	-0.0008	-0.0006	-0.0002	-0.0001	
0	32	0.0037	-0.0063	-0.0019	-0.0007	-0.0006	-0.0002	-0.0001	
0	34	0.0036	-0.0063	-0.0018	-0.0006	-0.0006	-0.0002	-0.0001	
0	36	0.0035	-0.0063	-0.0017	-0.0005	-0.0006	-0.0002	-0.0001	
0	38	0.0034	-0.0063	-0.0016	-0.0004	-0.0006	-0.0002	-0.0001	
0	40	0.0033	-0.0063	-0.0015	-0.0003	-0.0006	-0.0002	-0.0001	
0	42	0.0032	-0.0063	-0.0014	-0.0002	-0.0006	-0.0002	-0.0001	
0	44	0.0031	-0.0063	-0.0013	-0.0001	-0.0006	-0.0002	-0.0001	
0	46	0.0030	-0.0063	-0.0012	-0.0000	-0.0006	-0.0002	-0.0001	
0	48	0.0029	-0.0063	-0.0011	-0.0000	-0.0006	-0.0002	-0.0001	
0	50	0.0028	-0.0063	-0.0010	-0.0000	-0.0006	-0.0002	-0.0001	
0	52	0.0027	-0.0063	-0.0009	-0.0000	-0.0006	-0.0002	-0.0001	
0	54	0.0026	-0.0063	-0.0008	-0.0000	-0.0006	-0.0002	-0.0001	
0	56	0.0025	-0.0063	-0.0007	-0.0000	-0.0006	-0.0002	-0.0001	
0	58	0.0024	-0.0063	-0.0006	-0.0000	-0.0006	-0.0002	-0.0001	
0	60	0.0023	-0.0063	-0.0005	-0.0000	-0.0006	-0.0002	-0.0001	
0	62	0.0022	-0.0063	-0.0004	-0.0000	-0.0006	-0.0002	-0.0001	
0	64	0.0021	-0.0063	-0.0003	-0.0000	-0.0006	-0.0002	-0.0001	
0	66	0.0020	-0.0063	-0.0002	-0.0000	-0.0006	-0.0002	-0.0001	
0	68	0.0019	-0.0063	-0.0001	-0.0000	-0.0006	-0.0002	-0.0001	
0	70	0.0018	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	72	0.0017	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	74	0.0016	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	76	0.0015	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	78	0.0014	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	80	0.0013	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	82	0.0012	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	84	0.0011	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	86	0.0010	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	88	0.0009	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	90	0.0008	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	92	0.0007	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	94	0.0006	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	96	0.0005	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	98	0.0004	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	100	0.0003	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	102	0.0002	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	104	0.0001	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	106	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	108	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	110	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	112	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	114	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	116	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	118	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	120	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	122	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	124	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	126	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	128	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	130	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	132	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	134	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	136	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	138	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	140	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	142	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	144	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	146	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	148	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	150	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	152	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	154	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	156	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	158	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	160	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	162	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	164	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	166	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	168	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	170	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	172	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	174	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	176	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	178	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	180	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	182	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	184	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	186	0.0000	-0.0063	-0.0000	-0.0000	-0.0006	-0.0002	-0.0001	
0	188	0.0000	-0.0063	-0.0000					

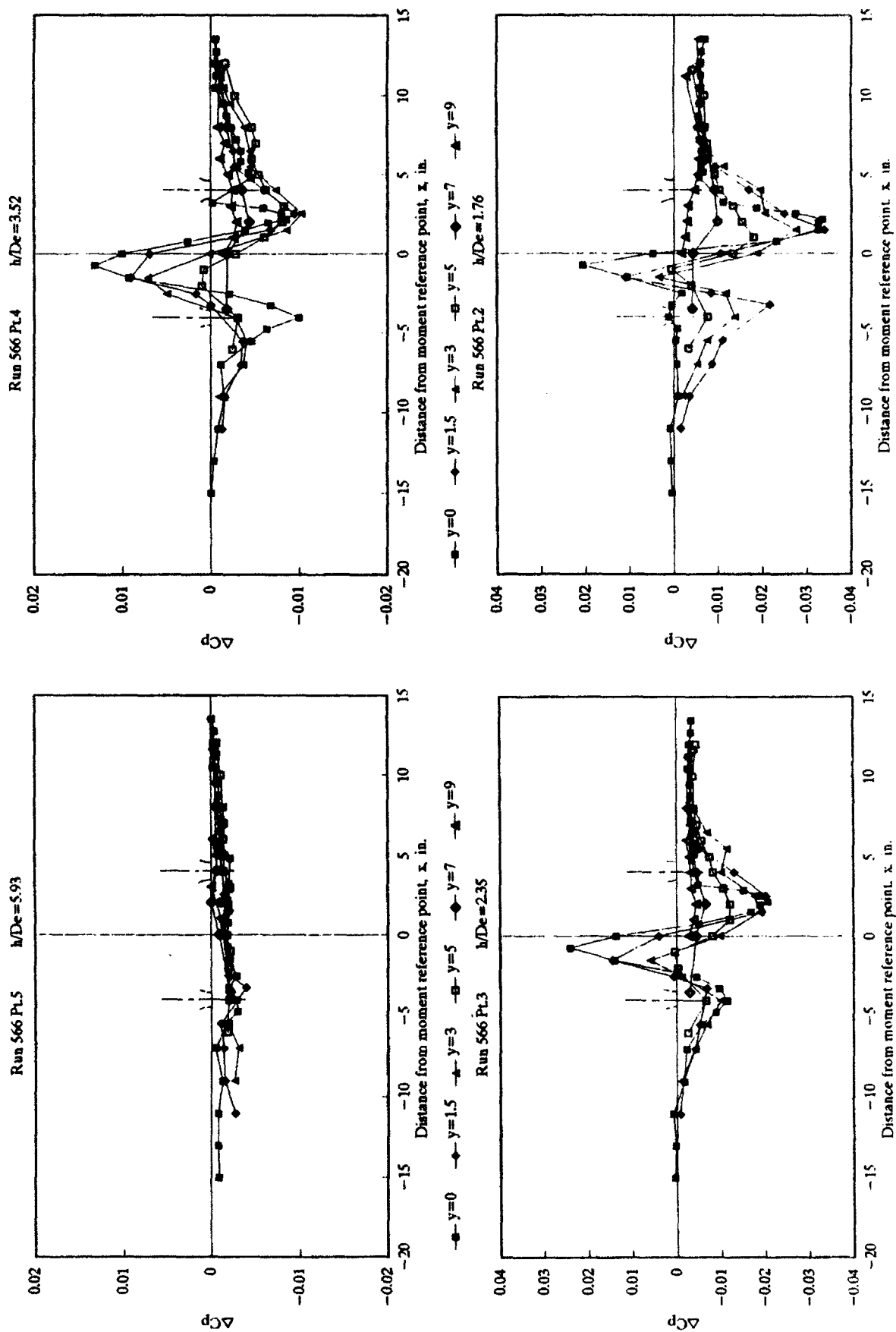


Fig. B-70-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
MFR=2 Run 566  $Ve=.02$



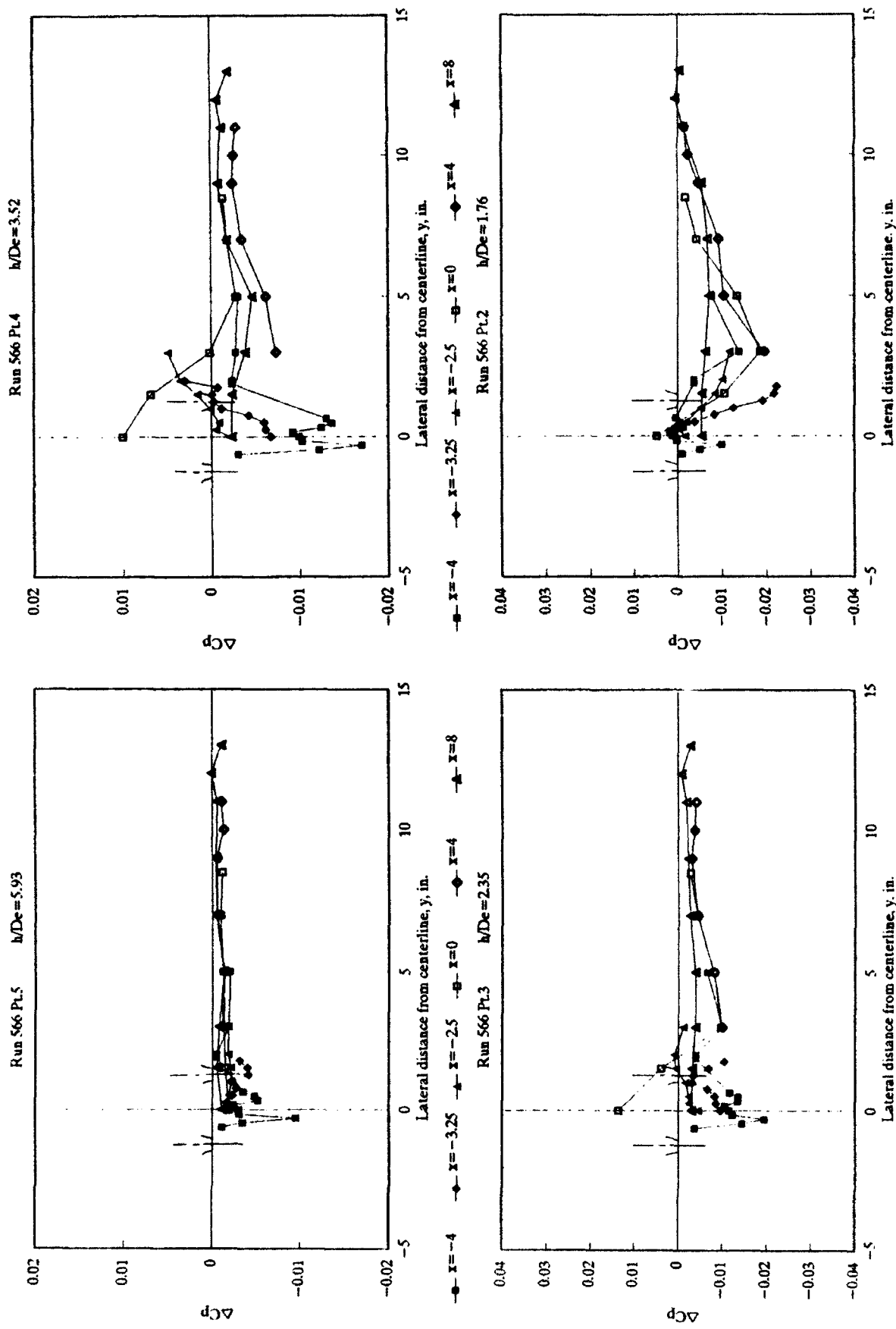


Fig.B-70-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
NPR=2 Run 566  $Ve=.02$



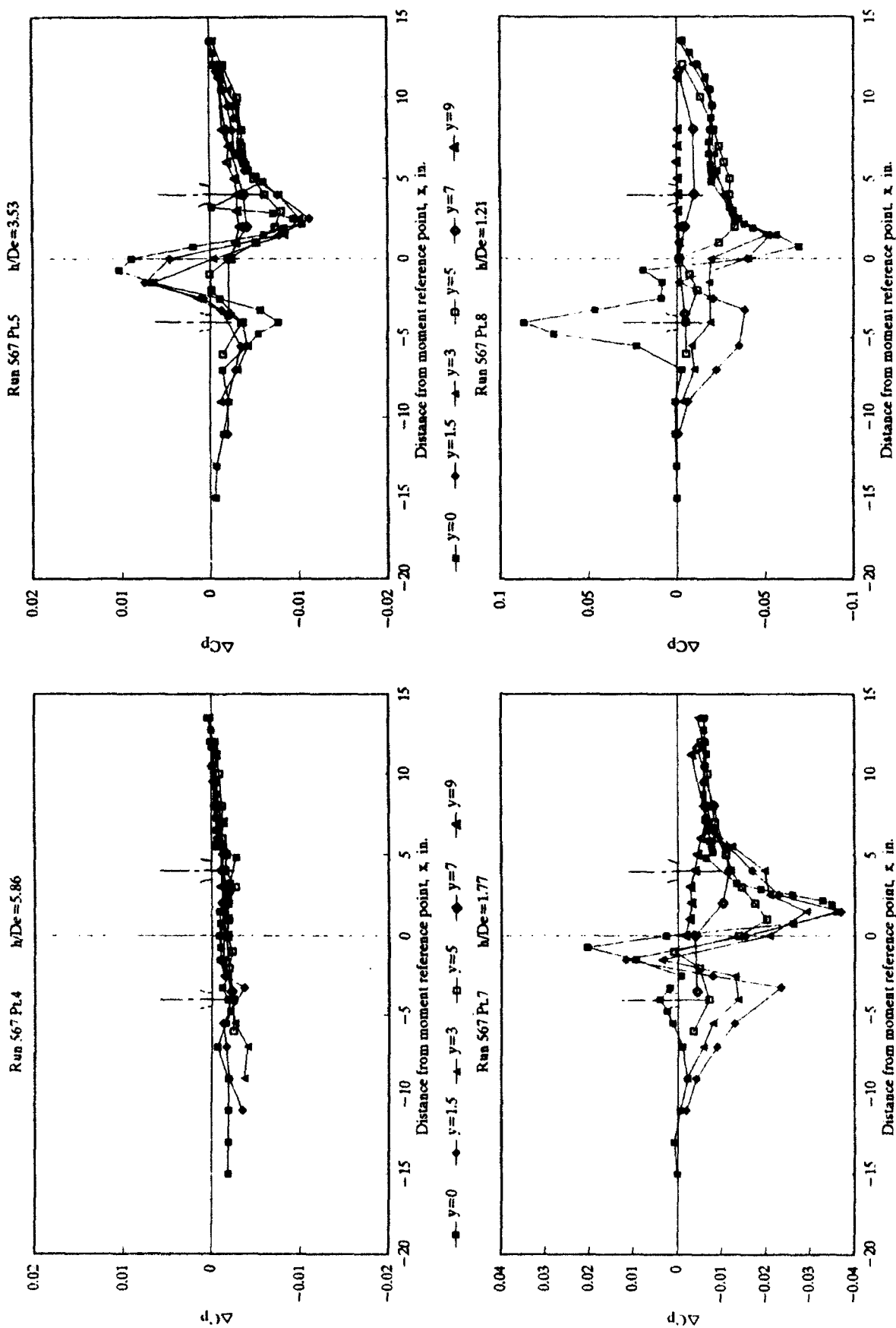


Fig. B-71-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
NPR=2 Run 567  $Ve=.04$

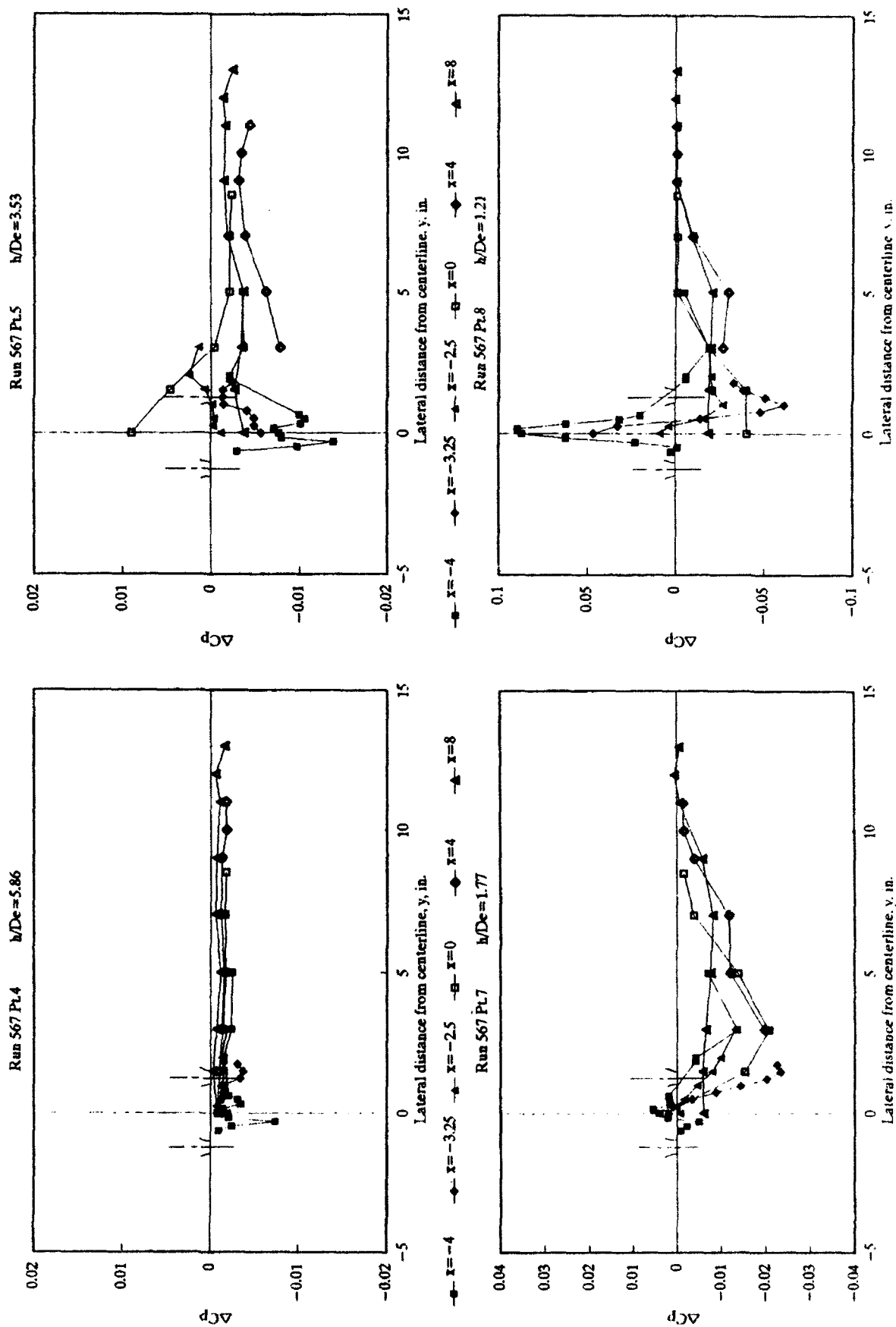


Fig. B-71-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
NPR=2 Run 567  $Ve=.04$

Run 568

	13	8	-0.0008
<b>Force and Moment Summary</b>			
		N/Ds =	1.2
3-Base		d/T =	-1.237
Pressure		d/T =	-1.124
3-Base		dM/Ds =	1.925
Pressure		dM/Ds =	1.957

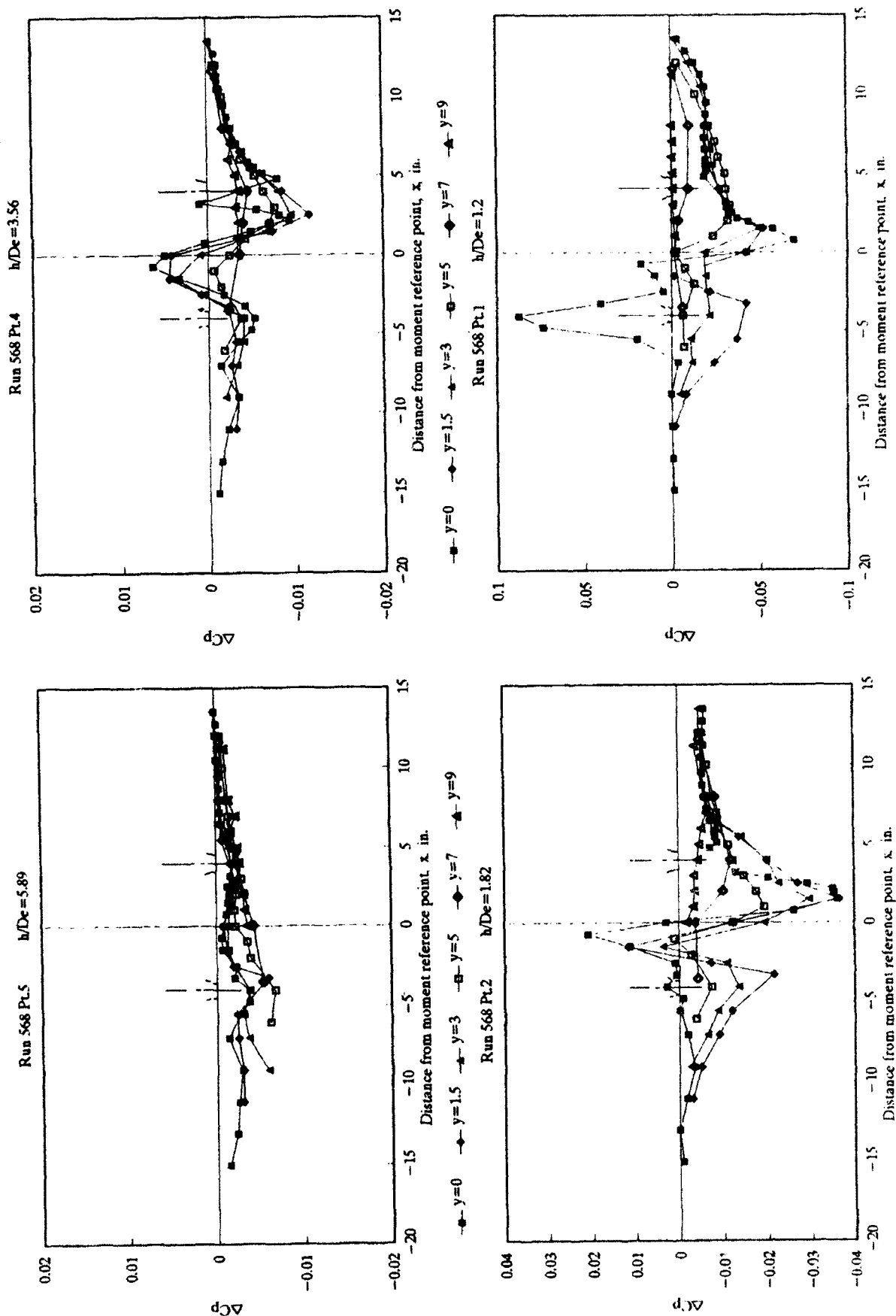


Fig.B-72-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets

NPR=2 Run 568  $Ve=.06$

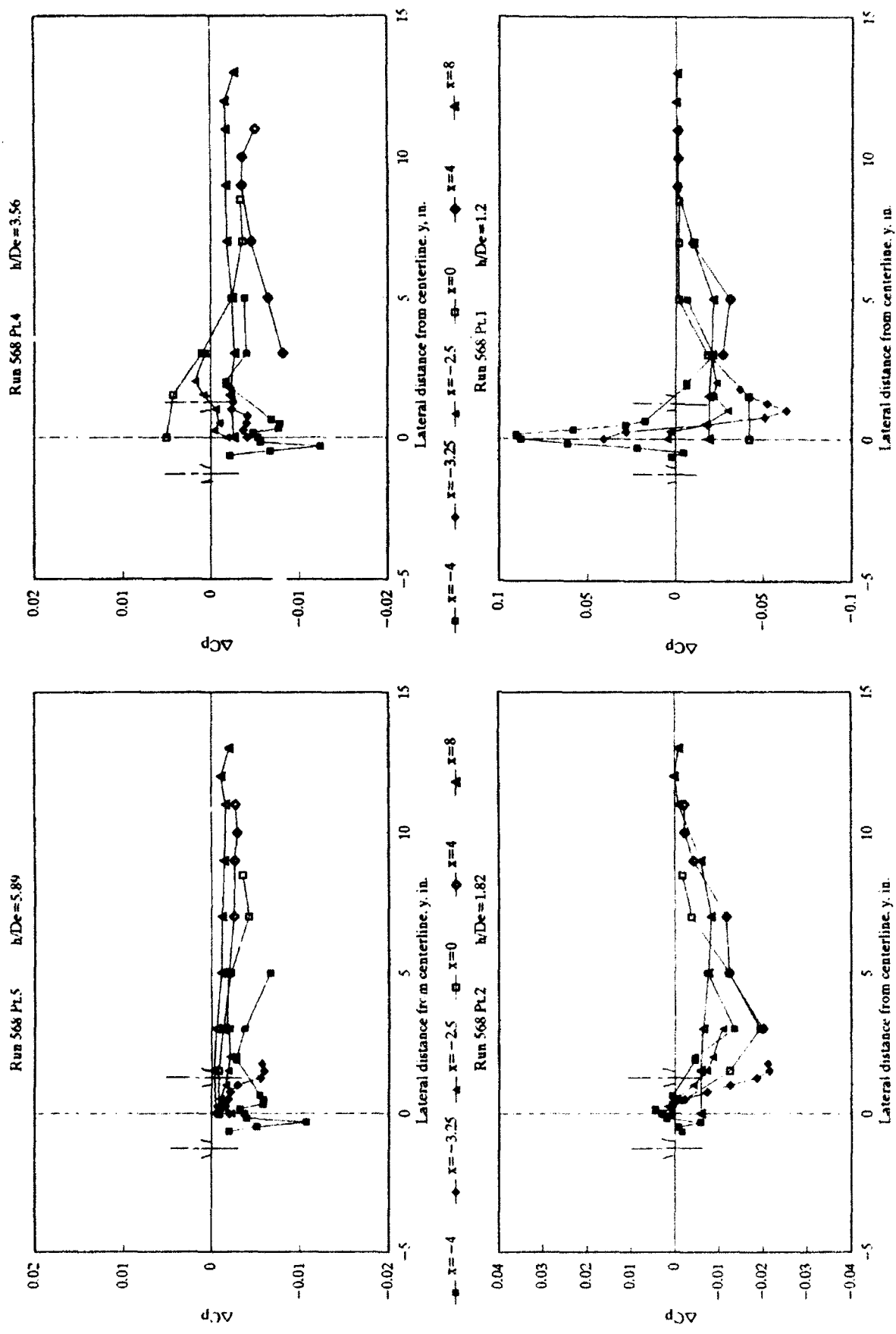


Fig. B-72-b Spanwise distributions of jet induced pressure at selected heights - Configuration IV - All Jets  
NPR=2 Run 568  $Ve=0.06$

**TABLE B-73 JET INDUCED PRESSURE INCREMENTS**  
Configuration IV - All Jets - NPR=2

Point No.	x	y	1 $\Delta C_p$	2 $\Delta C_p$	3 $\Delta C_p$	4 $\Delta C_p$	5 $\Delta C_p$	6 $\Delta C_p$	7 $\Delta C_p$	8 $\Delta C_p$	9 $\Delta C_p$	10 $\Delta C_p$	11 $\Delta C_p$	12 $\Delta C_p$	13 $\Delta C_p$	14 $\Delta C_p$	15 $\Delta C_p$	16 $\Delta C_p$	17 $\Delta C_p$	18 $\Delta C_p$	19 $\Delta C_p$	20 $\Delta C_p$	21 $\Delta C_p$	22 $\Delta C_p$	23 $\Delta C_p$	24 $\Delta C_p$	25 $\Delta C_p$	26 $\Delta C_p$	27 $\Delta C_p$	28 $\Delta C_p$	29 $\Delta C_p$	30 $\Delta C_p$	31 $\Delta C_p$	32 $\Delta C_p$	33 $\Delta C_p$	34 $\Delta C_p$	35 $\Delta C_p$	36 $\Delta C_p$	37 $\Delta C_p$	38 $\Delta C_p$	39 $\Delta C_p$	40 $\Delta C_p$	41 $\Delta C_p$	42 $\Delta C_p$	43 $\Delta C_p$	44 $\Delta C_p$	45 $\Delta C_p$	46 $\Delta C_p$	47 $\Delta C_p$	48 $\Delta C_p$	49 $\Delta C_p$	50 $\Delta C_p$	51 $\Delta C_p$	52 $\Delta C_p$	53 $\Delta C_p$	54 $\Delta C_p$	55 $\Delta C_p$	56 $\Delta C_p$	57 $\Delta C_p$	58 $\Delta C_p$	59 $\Delta C_p$	60 $\Delta C_p$	61 $\Delta C_p$	62 $\Delta C_p$	63 $\Delta C_p$	64 $\Delta C_p$	65 $\Delta C_p$	66 $\Delta C_p$	67 $\Delta C_p$	68 $\Delta C_p$	69 $\Delta C_p$	70 $\Delta C_p$	71 $\Delta C_p$	72 $\Delta C_p$	73 $\Delta C_p$	74 $\Delta C_p$	75 $\Delta C_p$	76 $\Delta C_p$	77 $\Delta C_p$	78 $\Delta C_p$	79 $\Delta C_p$	80 $\Delta C_p$	81 $\Delta C_p$	82 $\Delta C_p$	83 $\Delta C_p$	84 $\Delta C_p$	85 $\Delta C_p$	86 $\Delta C_p$	87 $\Delta C_p$	88 $\Delta C_p$	89 $\Delta C_p$	90 $\Delta C_p$	91 $\Delta C_p$	92 $\Delta C_p$	93 $\Delta C_p$	94 $\Delta C_p$	95 $\Delta C_p$	96 $\Delta C_p$	97 $\Delta C_p$	98 $\Delta C_p$	99 $\Delta C_p$	100 $\Delta C_p$	101 $\Delta C_p$	102 $\Delta C_p$	103 $\Delta C_p$	104 $\Delta C_p$	105 $\Delta C_p$	106 $\Delta C_p$	107 $\Delta C_p$	108 $\Delta C_p$	109 $\Delta C_p$	110 $\Delta C_p$	111 $\Delta C_p$	112 $\Delta C_p$	113 $\Delta C_p$	114 $\Delta C_p$	115 $\Delta C_p$	116 $\Delta C_p$	117 $\Delta C_p$	118 $\Delta C_p$	119 $\Delta C_p$	120 $\Delta C_p$	121 $\Delta C_p$	122 $\Delta C_p$	123 $\Delta C_p$	124 $\Delta C_p$	125 $\Delta C_p$	126 $\Delta C_p$	127 $\Delta C_p$	128 $\Delta C_p$	129 $\Delta C_p$	130 $\Delta C_p$	131 $\Delta C_p$	132 $\Delta C_p$	133 $\Delta C_p$	134 $\Delta C_p$	135 $\Delta C_p$	136 $\Delta C_p$	137 $\Delta C_p$	138 $\Delta C_p$	139 $\Delta C_p$	140 $\Delta C_p$	141 $\Delta C_p$	142 $\Delta C_p$	143 $\Delta C_p$	144 $\Delta C_p$	145 $\Delta C_p$	146 $\Delta C_p$	147 $\Delta C_p$	148 $\Delta C_p$	149 $\Delta C_p$	150 $\Delta C_p$	151 $\Delta C_p$	152 $\Delta C_p$	153 $\Delta C_p$	154 $\Delta C_p$	155 $\Delta C_p$	156 $\Delta C_p$	157 $\Delta C_p$	158 $\Delta C_p$	159 $\Delta C_p$	160 $\Delta C_p$	161 $\Delta C_p$	162 $\Delta C_p$	163 $\Delta C_p$	164 $\Delta C_p$	165 $\Delta C_p$	166 $\Delta C_p$	167 $\Delta C_p$	168 $\Delta C_p$	169 $\Delta C_p$	170 $\Delta C_p$	171 $\Delta C_p$	172 $\Delta C_p$	173 $\Delta C_p$	174 $\Delta C_p$	175 $\Delta C_p$	176 $\Delta C_p$	177 $\Delta C_p$	178 $\Delta C_p$	179 $\Delta C_p$	180 $\Delta C_p$	181 $\Delta C_p$	182 $\Delta C_p$	183 $\Delta C_p$	184 $\Delta C_p$	185 $\Delta C_p$	186 $\Delta C_p$	187 $\Delta C_p$	188 $\Delta C_p$	189 $\Delta C_p$	190 $\Delta C_p$	191 $\Delta C_p$	192 $\Delta C_p$	193 $\Delta C_p$	194 $\Delta C_p$	195 $\Delta C_p$	196 $\Delta C_p$	197 $\Delta C_p$	198 $\Delta C_p$	199 $\Delta C_p$	200 $\Delta C_p$	201 $\Delta C_p$	202 $\Delta C_p$	203 $\Delta C_p$	204 $\Delta C_p$	205 $\Delta C_p$	206 $\Delta C_p$	207 $\Delta C_p$	208 $\Delta C_p$	209 $\Delta C_p$	210 $\Delta C_p$	211 $\Delta C_p$	212 $\Delta C_p$	213 $\Delta C_p$	214 $\Delta C_p$	215 $\Delta C_p$	216 $\Delta C_p$	217 $\Delta C_p$	218 $\Delta C_p$	219 $\Delta C_p$	220 $\Delta C_p$	221 $\Delta C_p$	222 $\Delta C_p$	223 $\Delta C_p$	224 $\Delta C_p$	225 $\Delta C_p$	226 $\Delta C_p$	227 $\Delta C_p$	228 $\Delta C_p$	229 $\Delta C_p$	230 $\Delta C_p$	231 $\Delta C_p$	232 $\Delta C_p$	233 $\Delta C_p$	234 $\Delta C_p$	235 $\Delta C_p$	236 $\Delta C_p$	237 $\Delta C_p$	238 $\Delta C_p$	239 $\Delta C_p$	240 $\Delta C_p$	241 $\Delta C_p$	242 $\Delta C_p$	243 $\Delta C_p$	244 $\Delta C_p$	245 $\Delta C_p$	246 
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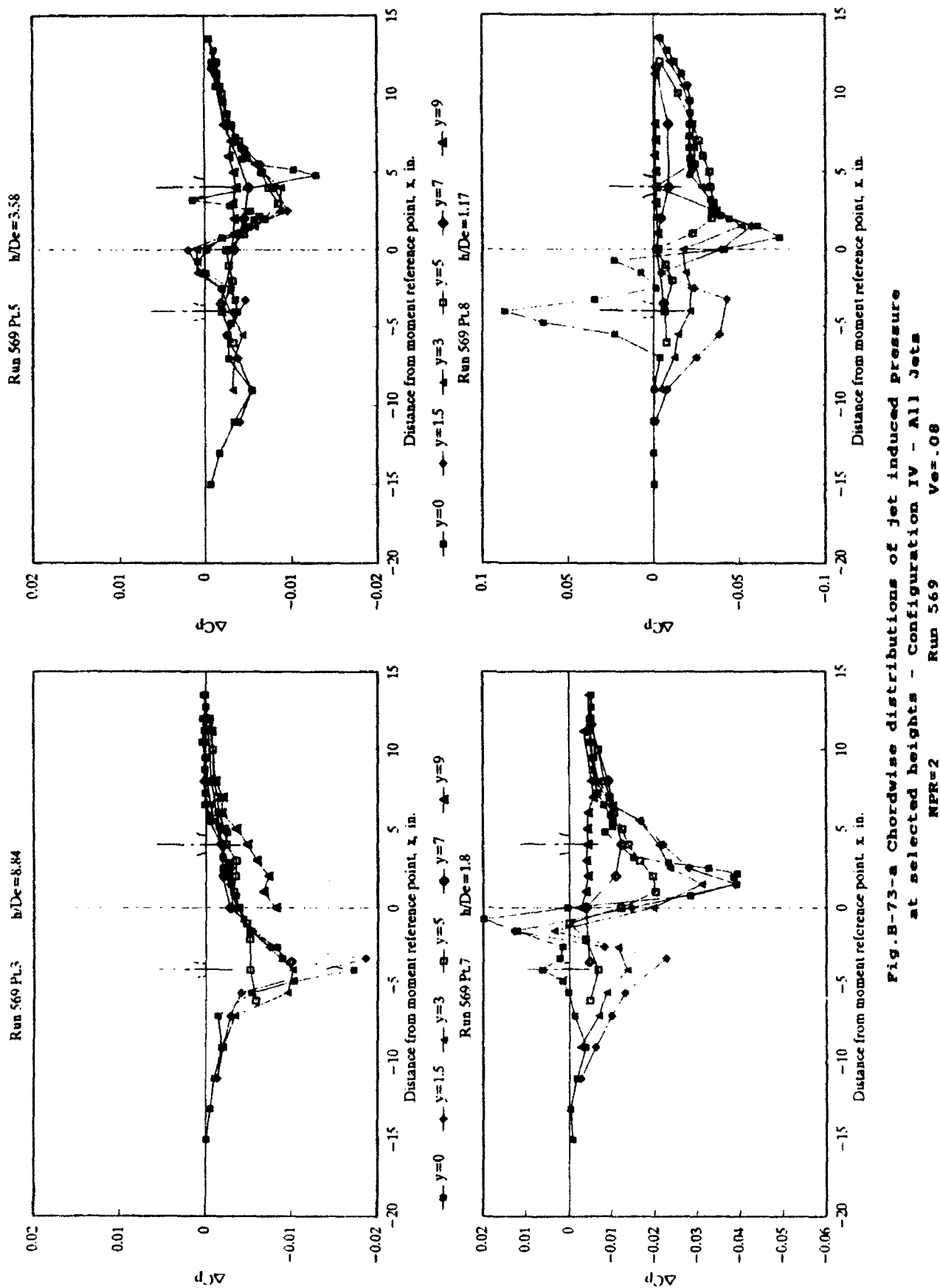


Fig. B-73-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
NPR=2 Run 569  $Ve=.08$



TABLE B-74 JET INDUCED PRESSURE INCREMENTS  
Configuration IV - All Jets - NPR=2  
Run 570  
Ve=1

Point No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary  
N/A = 1.16  
dL = -1.20  
Pressure dL = -1.20  
Pressure dL = -1.20  
Pressure dL = -1.20

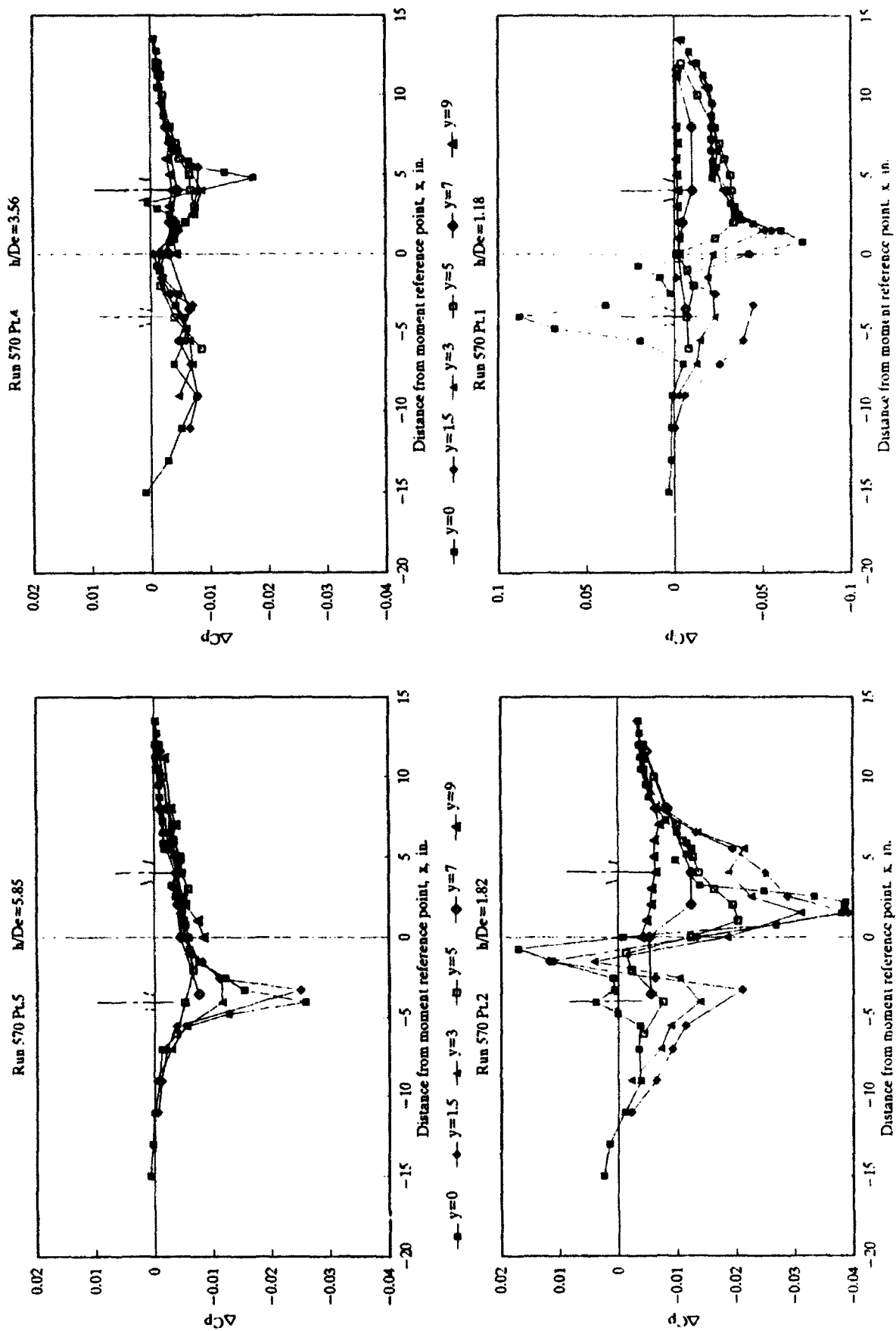


Fig. B-74-a Chordwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
NPR=2  $Ve=.1$  Run 570

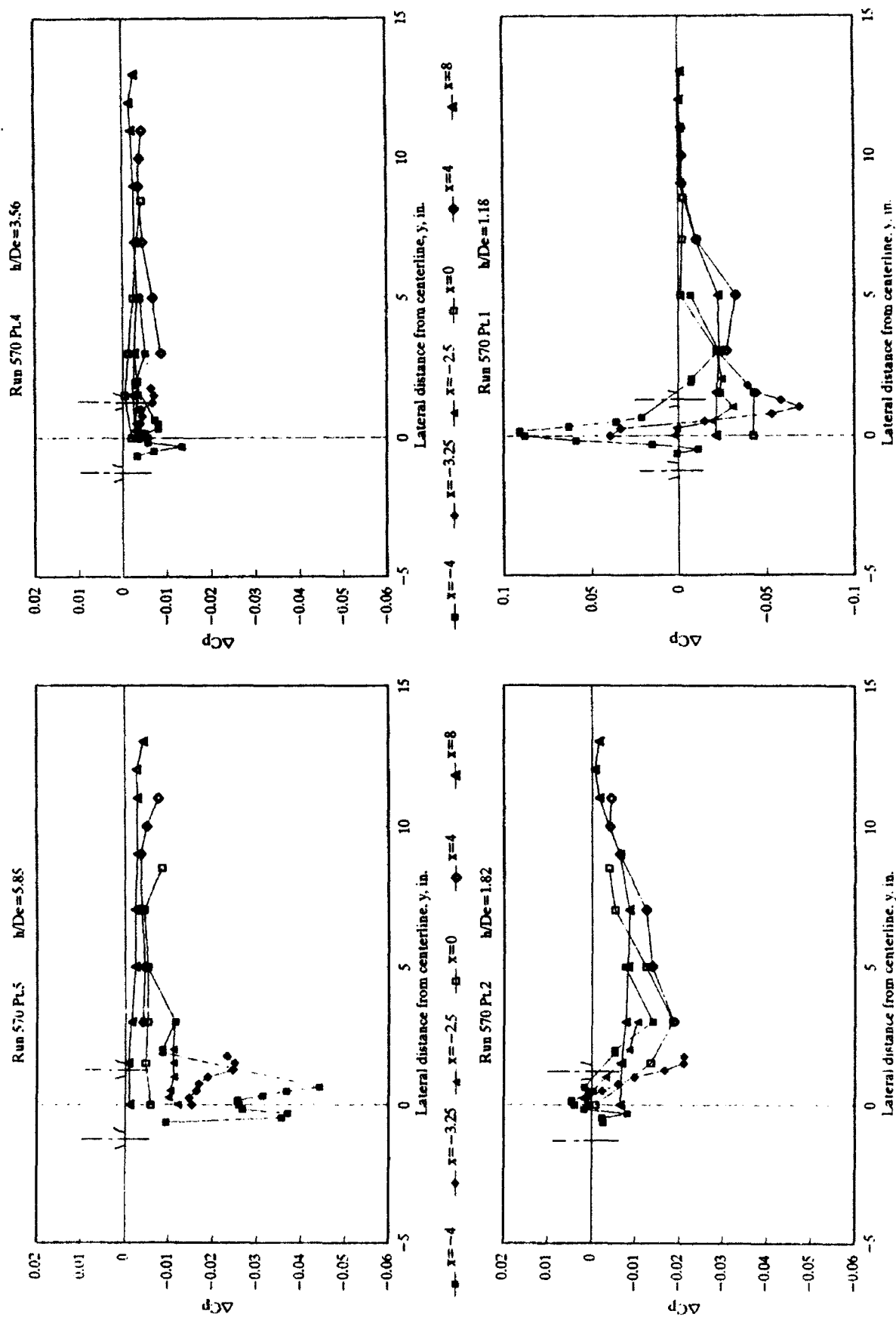


Fig.B-74-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
NPR=2 Run 570  $Ve=.1$

TABLE B-75 JET INDUCED PRESSURE INCREMENTS  
Configuration IV - All Jets - NPR=2  
Run 571  $V_e=.15$

[illegible]

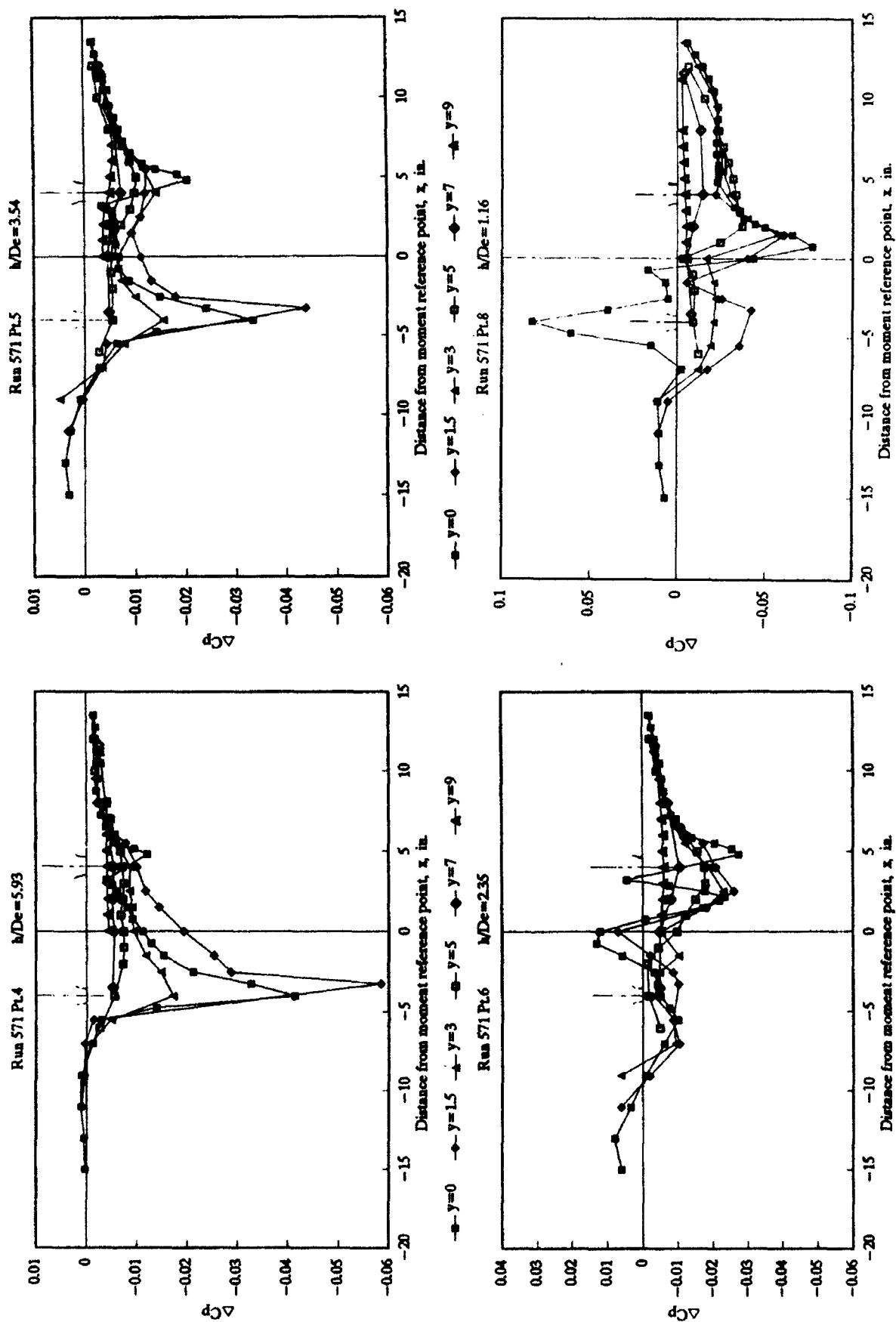


Fig. B-75-a Chordwise distributions of jet induced pressure at selected heights - Configuration IV - All Jets

NPR=2

Run 571

$Ve=.15$

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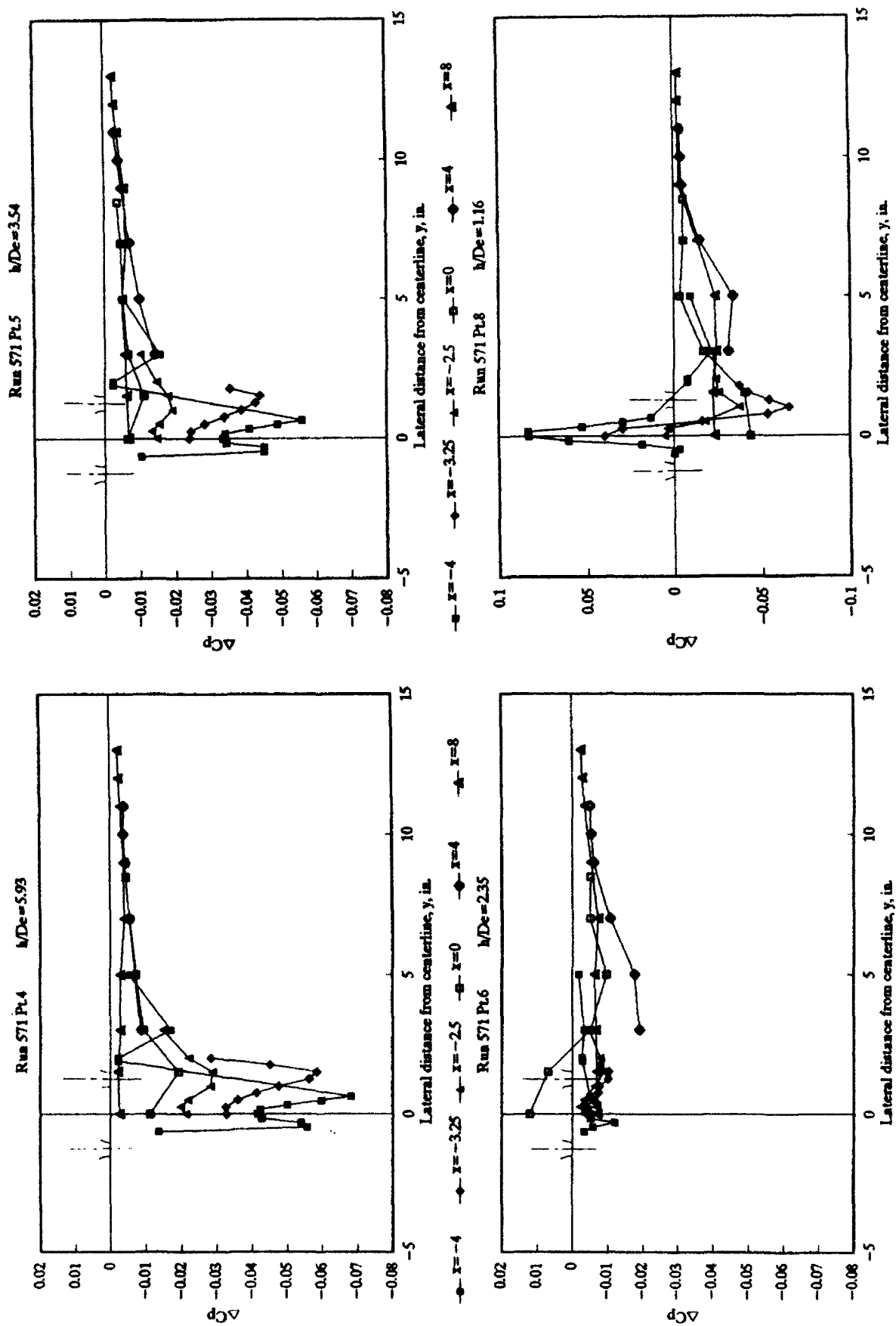


Fig. B-75-b Spanwise distributions of jet induced pressure  
at selected heights - Configuration IV - All Jets  
NPR=2 Run 571  $Ve=.15$

TABLE B-76 JET INDUCED PRESSURE INCREMENTS  
Configuration V - Both Jets - NPR=2

Run 596											
Ve=0											
Point	3	4	5	6	7	8	9	10	11	12	13
N/Ds =	24.56	11.77	8.86	6.86	5.86	4.86	3.86	2.86	1.86	0.86	0.36
x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
y	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-21	0.0000	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-19	-0.0001	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
0	-17	-0.0000	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-15	-0.0002	-0.0003	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
0	-13	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-11.5	0.0002	0.0001	-0.0000	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-10.75	0.0002	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-10	0.0000	-0.0000	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-9.25	0.0003	0.0002	-0.0000	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-8.5	0.0004	0.0002	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-7.5	0.0003	0.0002	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-6.75	-0.0000	-0.0002	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
0	-6	0.0005	0.0003	0.0002	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-5.25	0.0002	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-4.5	-0.0000	-0.0002	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
0	-4.05	-0.0004	-0.0005	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007
0	-3.85	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
0	-3.5	-0.0006	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005
0	-3.15	-0.0007	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
0	-2.8	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
0	-1.2	-0.0007	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
0	-0.85	-0.0001	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-0.5	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	-0.15	-0.0000	-0.0002	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
0	0.15	-0.0002	-0.0003	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
0	0.5	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	0.85	-0.0005	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
0	1.2	-0.0007	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
0	2.8	-0.0011	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015
0	3.15	-0.0003	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007
0	3.5	-0.0002	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
0	3.85	-0.0002	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
0	4.5	0.0001	-0.0002	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
0	5.25	0.0000	-0.0002	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
0	6	0.0003	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0	6.75	0.0002	-0.0000	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
0	7.5	0.0006	0.0004	0.0002	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
0.8	-2	-0.0011	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014
0.8	2	-0.0011	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014	-0.0014
1.5	-17	-0.0001	-0.0004	-0.0007	-0.0010	-0.0010	-0.0010	-0.0010	-0.0010	-0.0010	-0.0010
1.5	-15	0.0001	-0.0001	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
1.5	-13	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
1.5	-11.5	0.0001	-0.0001	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
1.5	-10	0.0002	0.0000	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
1.5	-8.5	0.0002	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
1.5	-7.5	-0.0001	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
1.5	-6	-0.0001	-0.0002	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
1.5	-4.5	0.0004	0.0003	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
1.5	-3.5	-0.0003	-0.0004	-0.0007	-0.0009	-0.0009	-0.0009	-0.0009	-0.0009	-0.0009	-0.0009
1.5	-2	-0.0004	-0.0005	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
1.5	-0.5	-0.0002	-0.0003	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
1.5	0.5	-0.0001	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
1.5	2	0.0001	0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
1.5	3.5	-0.0001	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
1.5	4.5	-0.0000	-0.0003	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
1.5	6	0.0000	-0.0002	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
1.5	7.5	0.0004	0.0003	0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
3	-15	-0.0000	-0.0003	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
3	-13	-0.0002	-0.0005	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008	-0.0008

Force and Moment Summary

N/Ds =	24.56	11.77	8.86	6.86	5.86	4.86	3.86	2.86	1.86	0.86	0.36
Balance	dL/T =	-0.016	-0.035	-0.064	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084	-0.084
Pressure	dL/T =	-0.011	-0.032	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051	-0.051
Balance	dM/TDs =	-0.021	-0.050	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080
Pressure	dM/TDs =	-0.008	-0.044	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080	-0.080

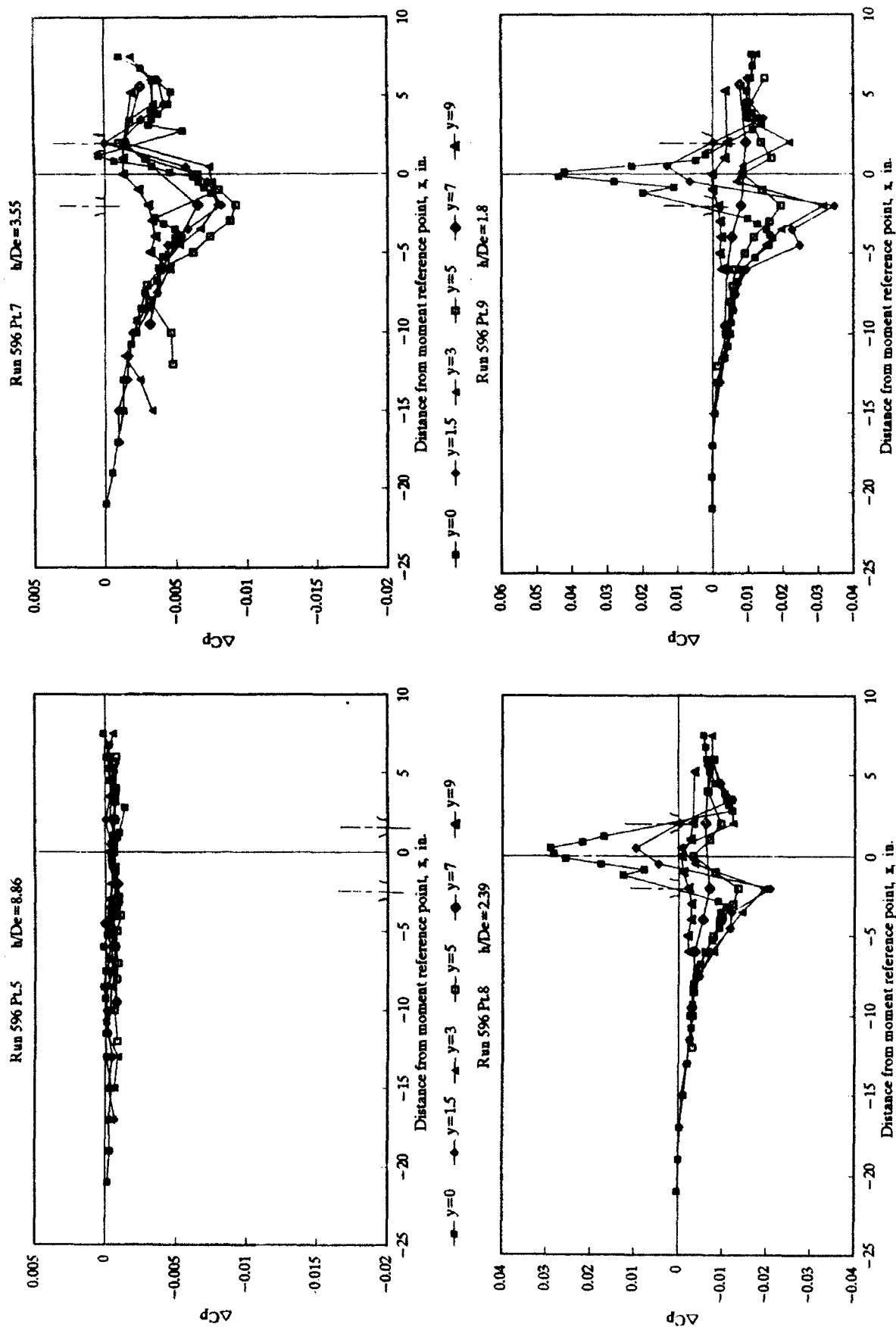


Fig. B-76 Chordwise distributions of jet induced pressure at selected heights - Configuration V - Both Jets  $Ve=0$   $MFR=2$  Run 596

Run 597

### Force and Moment Summary

Balance	$dL_T =$	$-1.152$
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Pressure,  $10^5$  = -0.9998

Balanço	dM/TDe =	-0.433

Pressure  $dM/TL = -0.489$ 

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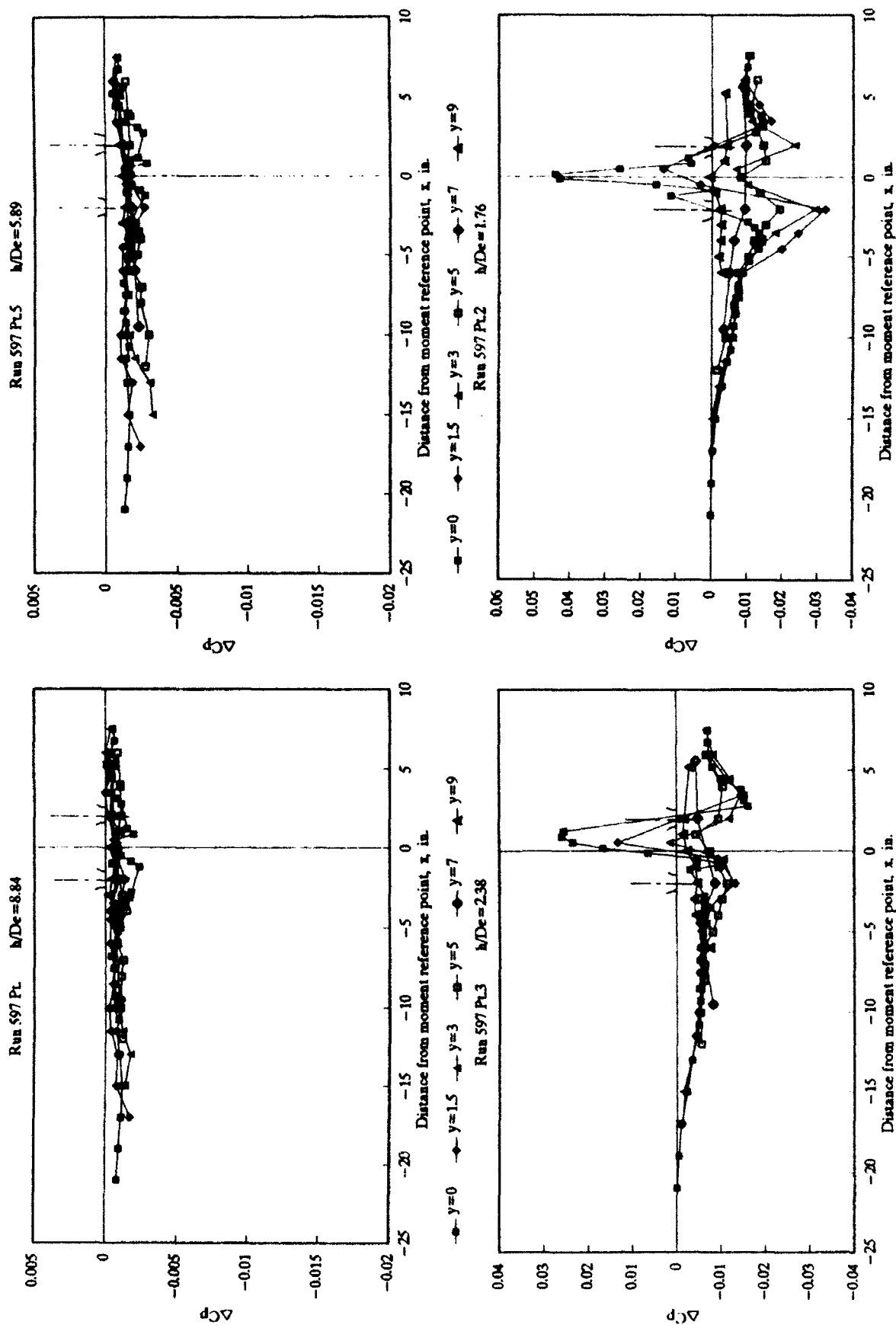


Fig. B-77 Chordwise distributions of jet induced pressure  
at selected heights - Configuration V - Both Jets  
MFR=2 Run 597  $Ve=.02$

TABLE B-78 JET INDUCED PRESSURE INCREMENTS  
Configuration V - Both Jets - NPR=2  
Run 598  $Ve=0.04$

Point NDe =	1 ΔCp	2 11.6	3 8.85	4 5.9	5 3.53	6 2.39	7 1.18	8 0.6	9 0.3	10 0.15	11 0.075	12 0.0375	13 0.01875	14 0.009375	15 0.0046875	16 0.00234375	17 0.001171875	18 0.0005859375	19 0.00029296875	20 0.000146484375	21 7.32421875e-05	22 3.662109375e-05	23 1.8310546875e-05	24 9.1552734375e-06	25 4.57763671875e-06	26 2.288818359375e-06	27 1.1444091796875e-06	28 5.7220458984375e-07	29 2.86102294921875e-07	30 1.430511474609375e-07	31 7.152557373046875e-08	32 3.5762786865234375e-08	33 1.78813934326171875e-08	34 8.94069671630859375e-09	35 4.470348358154296875e-09	36 2.2351741790771484375e-09	37 1.11758708953857421875e-09	38 5.58793544769287109375e-10	39 2.793967723846435546875e-10	40 1.3969838619232177734375e-10	41 6.9849193096160888671875e-11	42 3.49245965480804443359375e-11	43 1.746229827404022216796875e-11	44 8.731149137020111083984375e-12	45 4.3655745685100555419921875e-12	46 2.18278728425502777099609375e-12	47 1.091393642127513885498046875e-12	48 5.456968210637566942470234375e-13	49 2.7284841053187834712351171875e-13	50 1.3642420526593917356175859375e-13	51 6.8212102632796586780879296875e-14	52 3.41060513163982933904396484375e-14	53 1.705302565819914669521982421875e-14	54 8.526512829099572847609912109375e-15	55 4.2632564145497864238049560546875e-15	56 2.13162820727489321190247752734375e-15	57 1.065814103637446605951238763671875e-15	58 5.32907051816723302975619381881875e-16	59 2.664535259083616514878096909409375e-16	60 1.3322676295418082574390484547046875e-16	61 6.661338147709041287195242272351171875e-17	62 3.33066907385452064359762113608888671875e-17	63 1.665334536927260321798810555684443359375e-17	64 8.326672684637101509494052778422216796875e-18	65 4.1633363423185507547470263892113608888671875e-18	66 2.0816681711592753773735131946052778422216796875e-18	67 1.04083408557963768868675659730238892113608888671875e-18	68 5.20417042789831844343378329865116946052778422216796875e-19	69 2.602085213949159221716716946052778422216796875e-19	70 1.3010426069745796108583583730238892113608888671875e-19	71 6.5052130348727980542791796846052778422216796875e-20	72 3.25260651743739902745958984230238892113608888671875e-20	73 1.626303258718699513729794946052778422216796875e-20	74 8.13151629359349756486489730238892113608888671875e-21	75 4.0657581467967487824324489365116946052778422216796875e-21	76 2.03287907339837439121622446052778422216796875e-21	77 1.016439536699187060608112109375e-21	78 5.082197683495935303040555596846052778422216796875e-22	79 2.54109884174796765152027752734375e-22	80 1.2705494208739838257601365116946052778422216796875e-22	81 6.35274710436991927880068257601365116946052778422216796875e-23	82 3.1763735521849596394003412880068257601365116946052778422216796875e-23	83 1.588186776092479819700170644003412880068257601365116946052778422216796875e-23	84 7.9409338804960990988500853700170644003412880068257601365116946052778422216796875e-24	85 3.97046694024804954942504268500853700170644003412880068257601365116946052778422216796875e-24	86 1.985233470124024774712521342504268500853700170644003412880068257601365116946052778422216796875e-24	87 9.9261673506221223861562563625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	88 4.9630836753110611930781281281250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	89 2.48154183765553059653906406250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	90 1.24077091882777779826953203125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	91 0.62038545941388889913463265625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	92 0.310192729706944449567316328125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	93 0.15509636485347222478365816406250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	94 7.754818242692661239182908203125000103906250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	95 3.8774091213463306195914541015625000051953125000103906250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	96 1.938704560673165309595727050781250000259765625000051953125000103906250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	97 0.969352280336582654797863525390625000012988281250000259765625000051953125000103906250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	98 0.4846761401682913273989317626953125000006494140625000012988281250000259765625000051953125000103906250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	99 0.2423380700841456636994658813226562500000324707203125000012988281250000259765625000051953125000103906250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25	100 0.121169035042072831849732941131328125000001623536015625000006494140625000012988281250000259765625000051953125000103906250002078125000415625000838125001676250033625006712521342504268500853700170644003412880068257601365116946052778422216796875e-25
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ALWAYS USE MOP PRO 6000

Core and moment summary								
	n/Ds =	24.6	11.8	8.85	5.9	3.53	2.39	1.19
Balance	d/T =	-0.048	-0.124	-0.147	-0.188	-0.348	-0.564	-1.101
Pressure	d/TD =	-0.072	-0.126	-0.150	-0.202	-0.359	-0.548	-1.002
Balance	d/TD =	-0.274	-0.510	-0.604	-0.788	-1.081	-0.954	-0.361
Pressure	d/TD =	-0.147	-0.348	-0.441	-0.625	-0.931	-0.769	-0.426

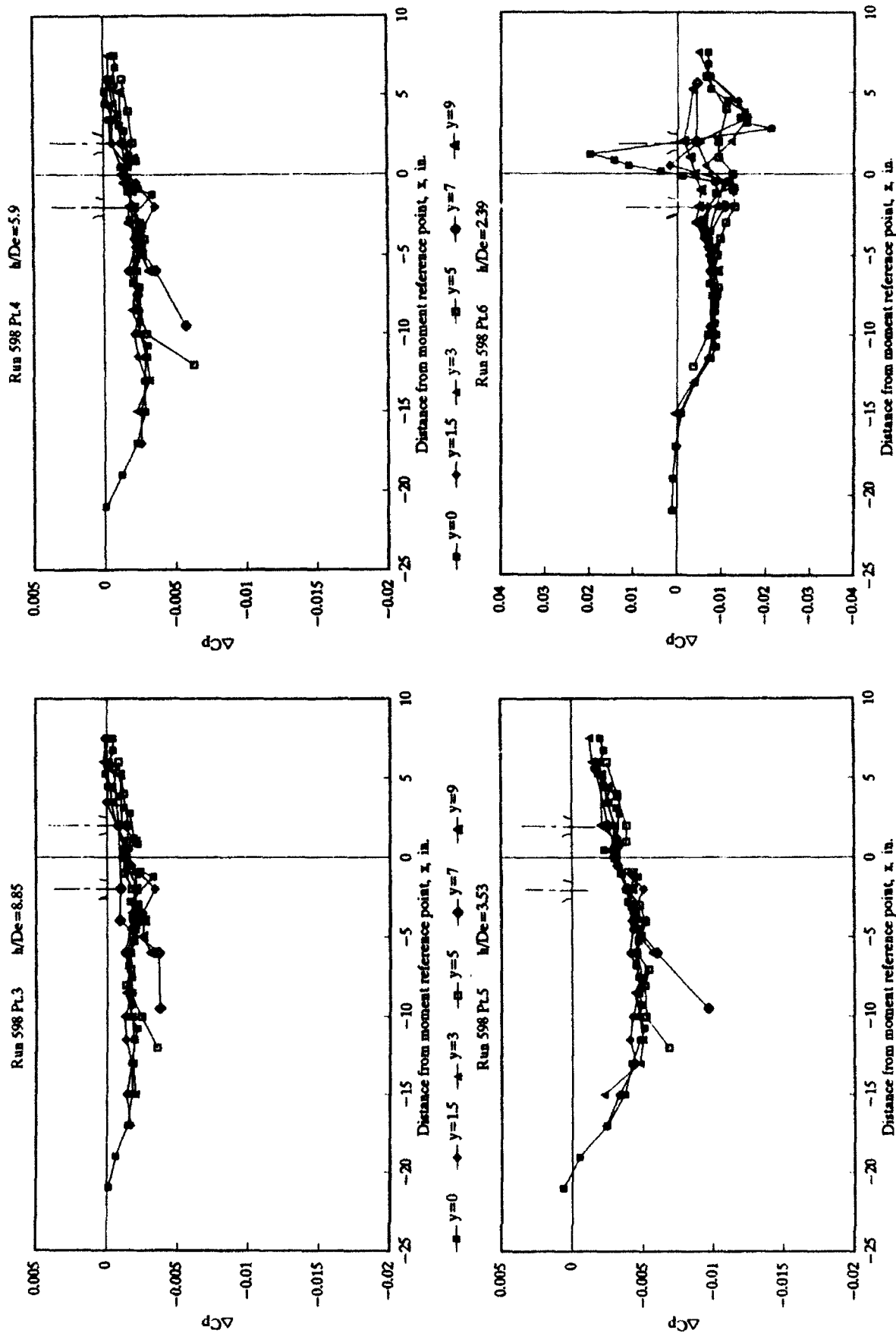


Fig.B-78 Chordwise distributions of jet induced pressure  
at selected heights - Configuration V - Both Jets  
NPR=2 Run 598  $Ve=.04$





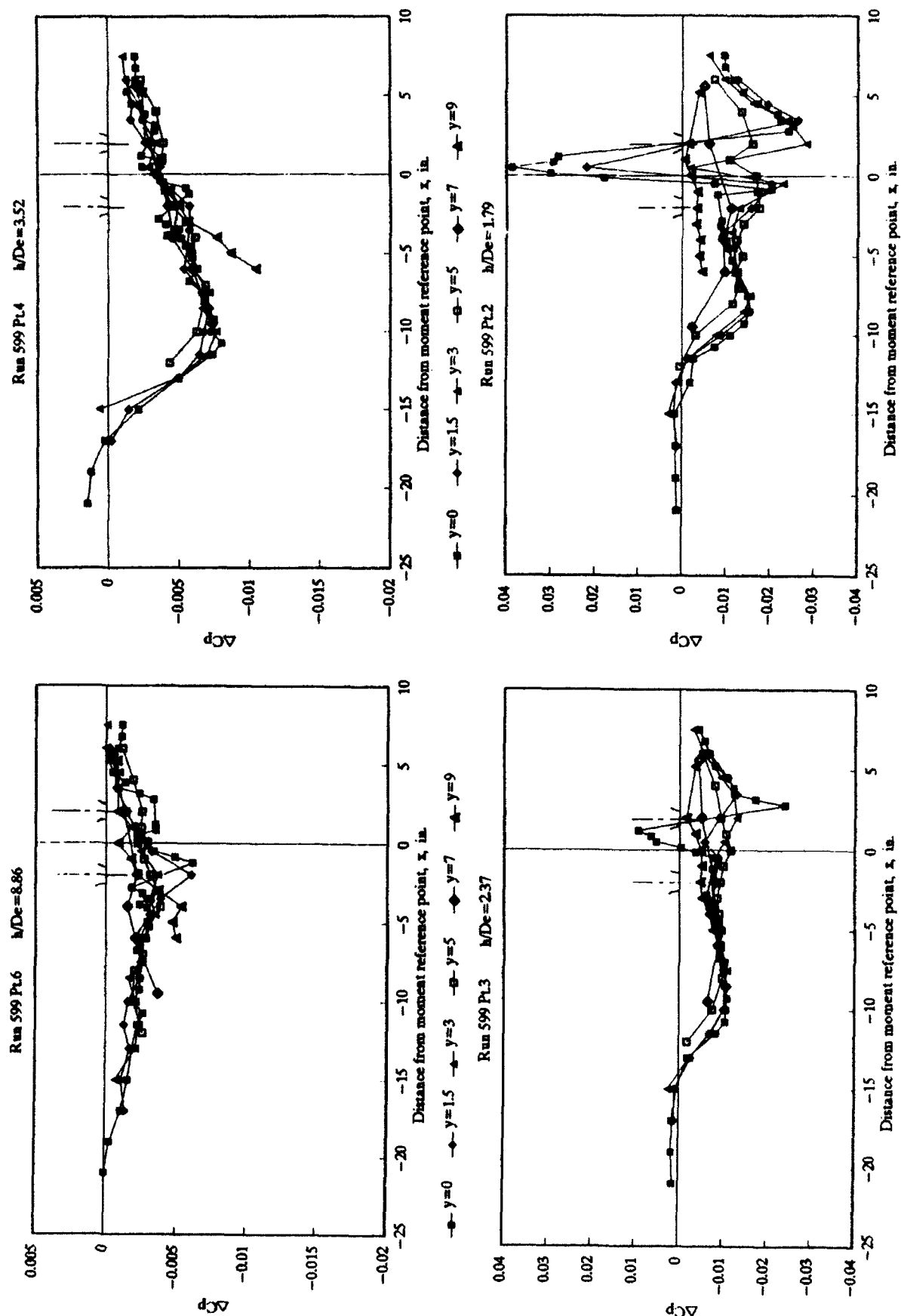


Fig. B-79 Chordwise distributions of jet induced pressure at selected heights - Configuration V - Both Jets

Run 599  $Ve=.06$



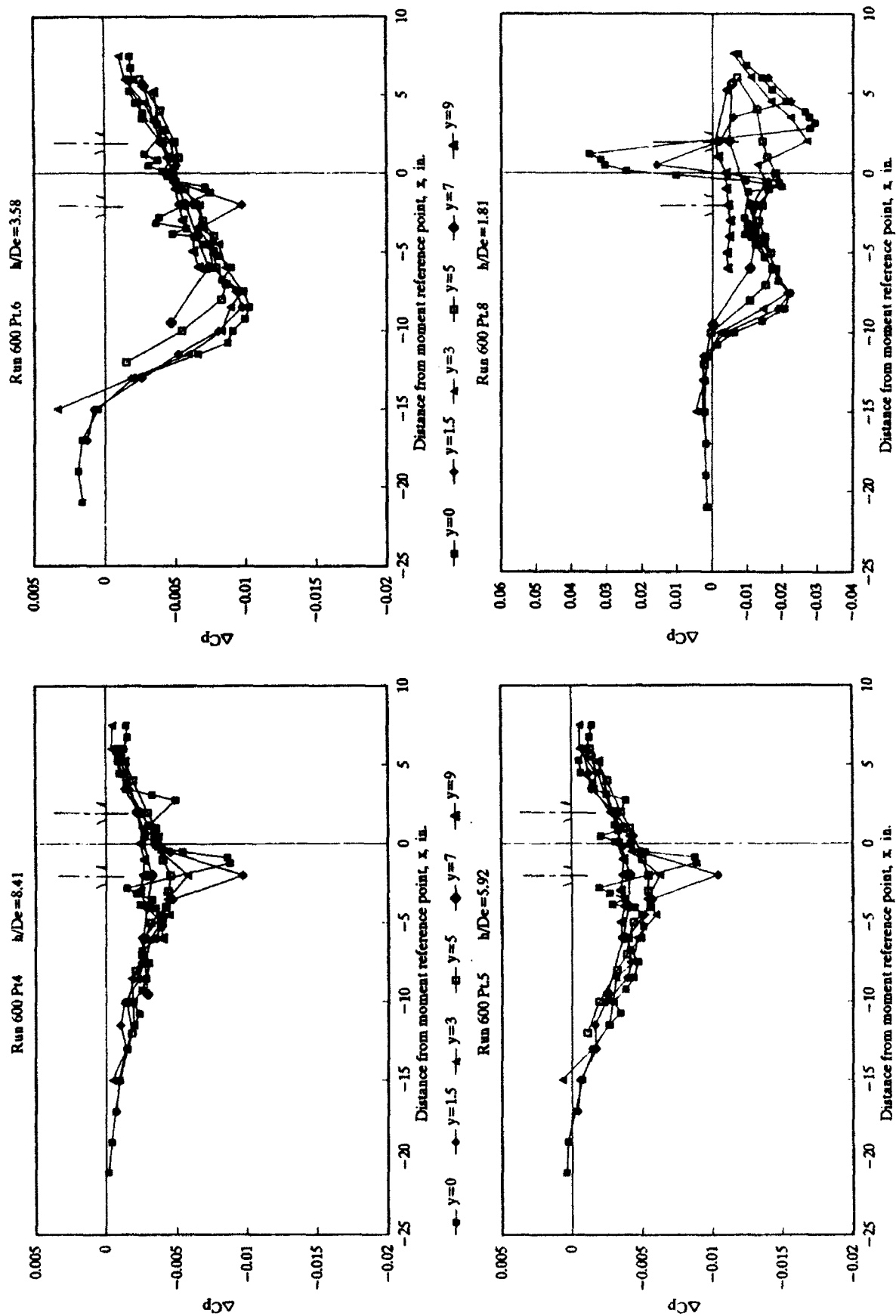


Fig. B-80 Chordwise distributions of jet induced pressure  
at selected heights - Configuration V - Both Jets  
NPR=2 Run 600  $Ve = .08$

TABLE B-81 JET INDUCED PRESSURE INCREMENTS  
Configuration V - Both Jets - NPR=2

Run 601									
Ve=1									
Point	1	2	3	4	5	6	7	8	9
NDA =	1.22	2.35	3.54	4.83	6.11	7.39	8.67	9.95	11.23
y	x	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp	ΔCp
0	-21	0.0023	0.0019	0.0016	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-19	0.0030	0.0028	0.0020	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-17	0.0032	0.0028	0.0020	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
0	-15	0.0039	0.0027	0.0014	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
0	-13	0.0023	0.0022	0.0013	-0.0009	-0.0009	-0.0009	-0.0009	-0.0009
0	-11.5	0.0041	0.0035	0.0024	-0.0009	-0.0009	-0.0009	-0.0009	-0.0009
0	-10.75	0.0041	0.0043	0.0049	-0.0009	-0.0009	-0.0009	-0.0009	-0.0009
0	-10	0.0052	0.0052	0.0070	-0.0016	-0.0016	-0.0016	-0.0016	-0.0016
0	-9.25	0.0000	0.0140	0.0093	-0.0023	-0.0023	-0.0023	-0.0023	-0.0023
0	-8.5	0.0136	0.0183	0.0109	-0.0027	-0.0027	-0.0027	-0.0027	-0.0027
0	-7.5	0.0260	0.0196	0.0119	-0.0028	-0.0028	-0.0028	-0.0028	-0.0028
0	-6.75	0.0306	0.0171	0.0104	-0.0023	-0.0016	-0.0013	-0.0013	-0.0013
0	-6	0.0266	0.0185	0.0111	-0.0036	-0.0029	-0.0027	-0.0027	-0.0027
0	-5.25	0.0260	0.0147	0.0101	-0.0040	-0.0033	-0.0030	-0.0030	-0.0030
0	-4.5	0.0221	0.0120	0.0087	-0.0039	-0.0033	-0.0030	-0.0030	-0.0030
0	-4.05	0.0213	0.0106	0.0073	-0.0035	-0.0031	-0.0028	-0.0028	-0.0028
0	-3.85	0.0196	0.0096	0.0063	-0.0031	-0.0021	-0.0016	-0.0013	-0.0013
0	-3.6	0.0206	0.0090	0.0063	-0.0031	-0.0021	-0.0016	-0.0013	-0.0013
0	-3.15	0.0166	0.0071	0.0034	-0.0034	-0.0021	-0.0016	-0.0013	-0.0013
0	-2.8	0.0180	0.0071	0.0029	-0.0029	-0.0026	-0.0023	-0.0023	-0.0023
0	-1.2	0.0253	0.0070	0.0115	-0.0116	-0.0106	-0.0100	-0.0100	-0.0100
0	-0.85	0.0274	0.0090	0.0111	-0.0111	-0.0104	-0.0096	-0.0096	-0.0096
0	-0.5	0.0439	0.0066	0.0096	-0.0096	-0.0089	-0.0081	-0.0081	-0.0081
0	-0.15	0.0460	0.0046	0.0045	-0.0045	-0.0037	-0.0030	-0.0030	-0.0030
0	0.15	0.0669	0.0063	0.0036	-0.0036	-0.0031	-0.0025	-0.0025	-0.0025
0	0.5	0.0774	0.0074	0.0036	-0.0036	-0.0020	-0.0018	-0.0018	-0.0018
0	0.85	0.0211	0.0038	0.0037	-0.0037	-0.0019	-0.0020	-0.0016	-0.0016
0	1.2	0.0139	0.0056	0.0029	-0.0029	-0.0014	-0.0012	-0.0011	-0.0011
0	2.8	0.0186	0.0183	0.0082	-0.0082	-0.0042	-0.0037	-0.0036	-0.0036
0	3.15	0.0242	0.0128	0.0056	-0.0056	-0.0029	-0.0024	-0.0023	-0.0023
0	3.5	0.0285	0.0085	0.0037	-0.0037	-0.0011	-0.0009	-0.0009	-0.0009
0	3.85	0.0273	0.0090	0.0039	-0.0039	-0.0010	-0.0009	-0.0009	-0.0009
0	4.5	0.0256	0.0070	0.0030	-0.0030	-0.0001	0.0001	0.0001	0.0001
0	5.25	0.0242	0.0057	0.0021	0.0003	0.0002	0.0002	0.0002	0.0002
0	6	0.0246	0.0068	0.0028	-0.0028	-0.0006	-0.0006	-0.0006	-0.0006
0	6.75	0.0229	0.0047	0.0028	-0.0028	-0.0010	-0.0009	-0.0009	-0.0009
0	7.5	0.0224	0.0044	0.0026	-0.0026	-0.0015	-0.0013	-0.0008	-0.0008
0.8	-2	0.0278	0.0152	0.0346	-0.0346	-0.0465	-0.0409	-0.0382	-0.0382
0.8	2	0.0366	0.0437	0.0250	-0.0250	-0.0130	-0.0134	-0.0118	-0.0118
1.5	-17	0.0029	0.0024	0.0012	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006
1.5	-15	0.0041	0.0035	0.0017	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007
1.5	-13	0.0048	0.0028	0.0002	-0.0002	-0.0015	-0.0015	-0.0013	-0.0013
1.5	-11.5	0.0060	0.0012	0.0019	-0.0019	-0.0007	-0.0006	-0.0006	-0.0006
1.5	-10	0.0060	0.0046	0.0058	-0.0058	-0.0010	-0.0007	-0.0006	-0.0006
1.5	-8.5	0.0106	0.0172	0.0102	-0.0022	-0.0018	-0.0018	-0.0018	-0.0018
1.5	-7.5	0.0284	0.0184	0.0104	-0.0024	-0.0024	-0.0017	-0.0016	-0.0016
1.5	-6	0.0270	0.0167	0.0100	-0.0023	-0.0017	-0.0015	-0.0015	-0.0015
1.5	-4.5	0.0228	0.0129	0.0083	-0.0047	-0.0036	-0.0035	-0.0035	-0.0035
1.5	-3.8	0.0200	0.0101	0.0066	-0.0066	-0.0062	-0.0062	-0.0062	-0.0062
1.5	-2	0.0281	0.0098	0.0127	-0.0127	-0.0186	-0.0186	-0.0186	-0.0186
1.5	-0.5	0.0644	0.0090	0.0099	-0.0099	-0.0096	-0.0097	-0.0090	-0.0090
1.5	0.5	0.0616	0.0065	0.0086	-0.0086	-0.0046	-0.0043	-0.0040	-0.0040
1.5	2	0.0066	0.0030	0.0021	-0.0021	-0.0016	-0.0014	-0.0010	-0.0010
1.5	3.5	0.0876	0.0106	0.0046	-0.0046	-0.0018	-0.0013	-0.0006	-0.0006
1.5	4.8	0.0344	0.0091	0.0033	-0.0033	-0.0009	-0.0006	-0.0002	-0.0002
1.5	6	0.0220	0.0045	0.0022	-0.0022	-0.0004	-0.0004	0.0001	0.0001
1.5	7.5	0.0024	0.0021	0.0012	-0.0012	-0.0004	-0.0004	0.0001	0.0001
3	-15	0.0073	0.0082	0.0044	0.0000	0.0000	0.0001	0.0002	0.0002
3	-13	0.0042	0.0027	0.0003	-0.0003	-0.0013	-0.0013	-0.0012	-0.0012

Force and Moment Summary

h/Da =	11.22	2.35	3.54	8.63	11.78	24.53
Balance	dL/T =	-0.957	-0.603	-0.276	-0.190	-0.187
Pressure	dL/T =	0.688	-0.390	-0.419	-0.328	-0.328
Balance	dM/TDa =	0.404	-0.630	-0.348	-0.307	-0.308
Pressure	dM/TDa =	0.404	-0.630	-0.348	-0.307	-0.308

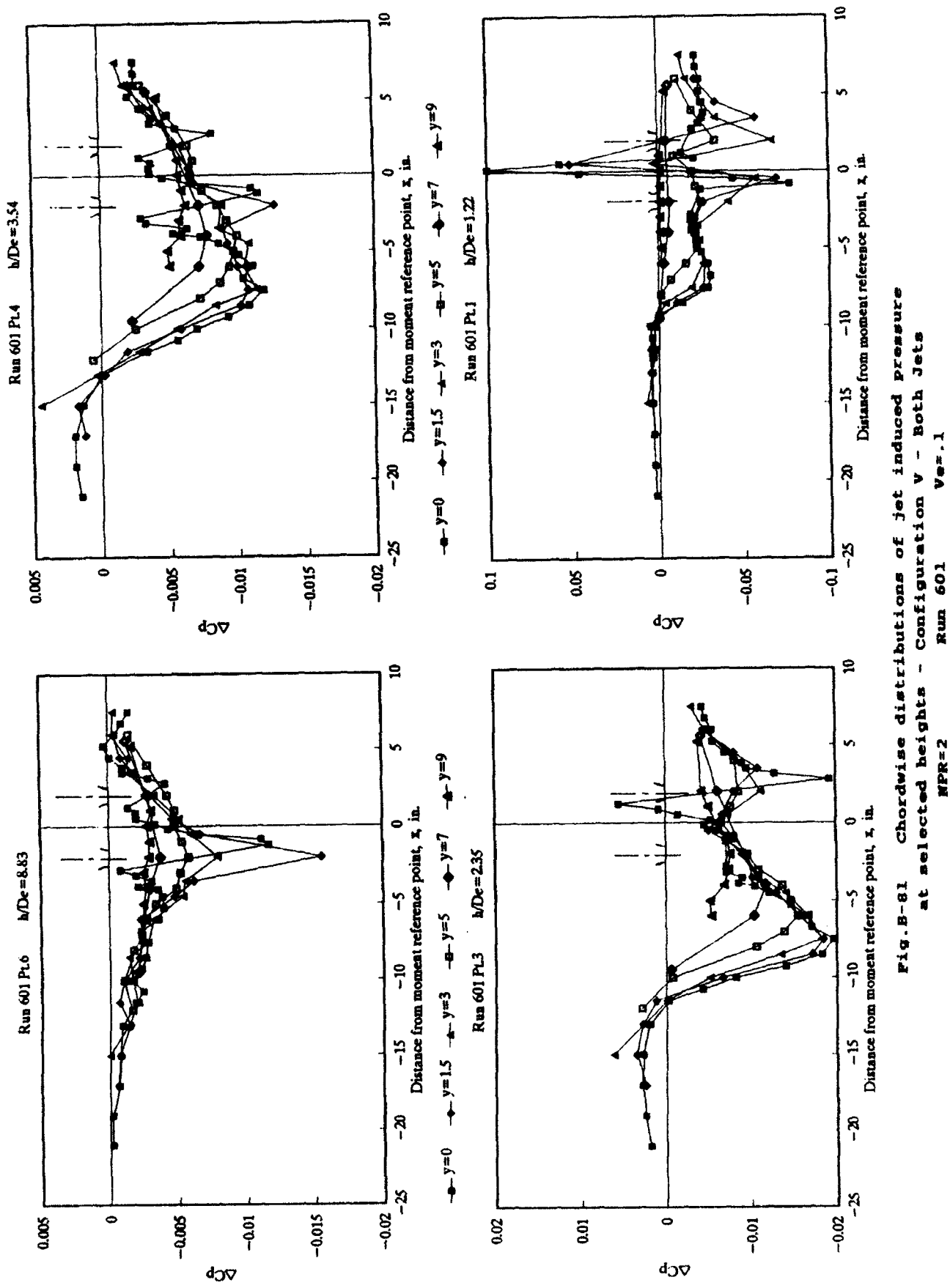


Fig.B-81 Chordwise distributions of jet induced pressure at selected heights - Configuration V - Both Jets  
Run 601  $V_{jet}=1$   $NPR=2$



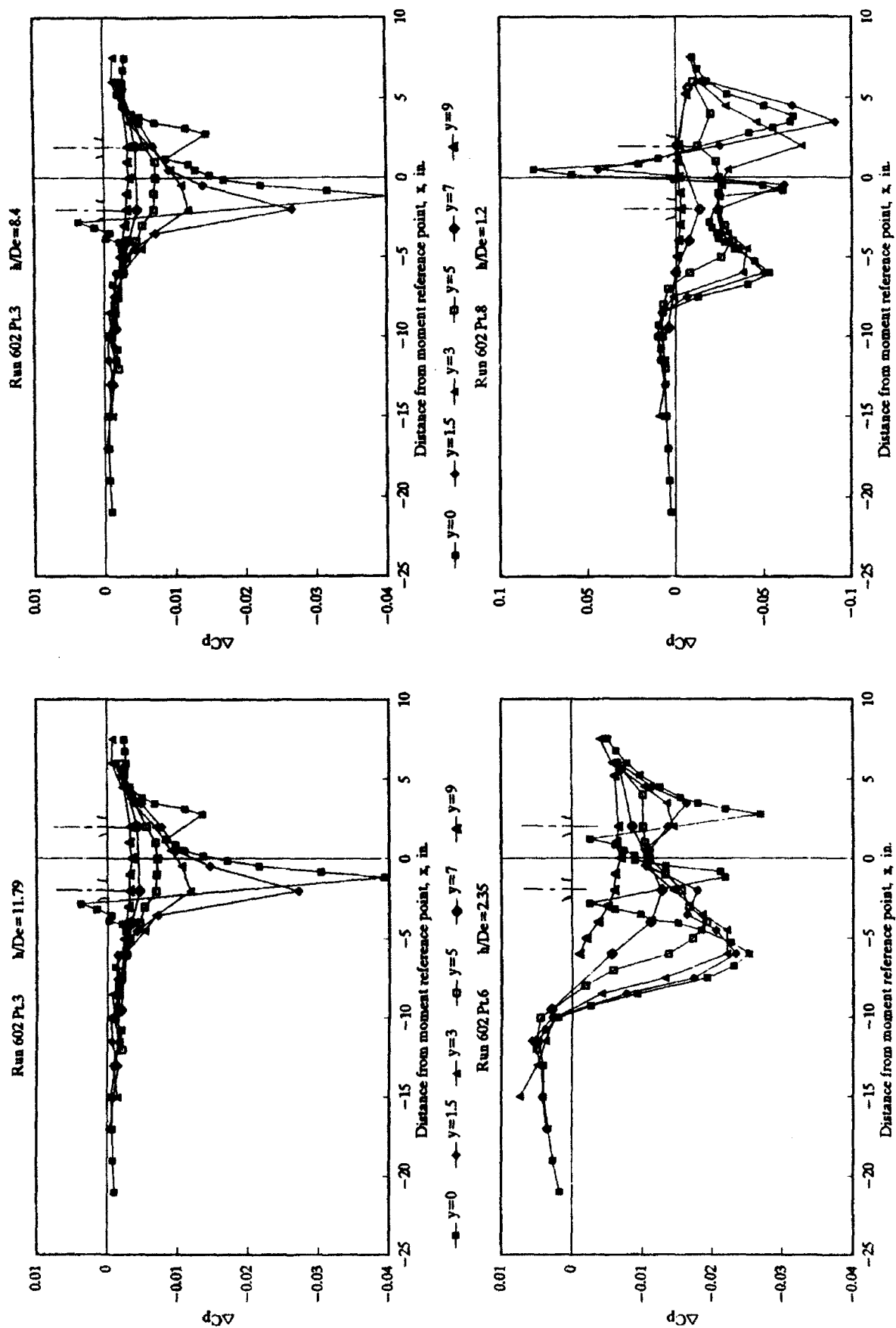


Fig.B-82 Chordwise distributions of jet induced pressure  
at selected heights - Configuration V - Both Jets  
NPR=2 Run 602  $Ve=.15$





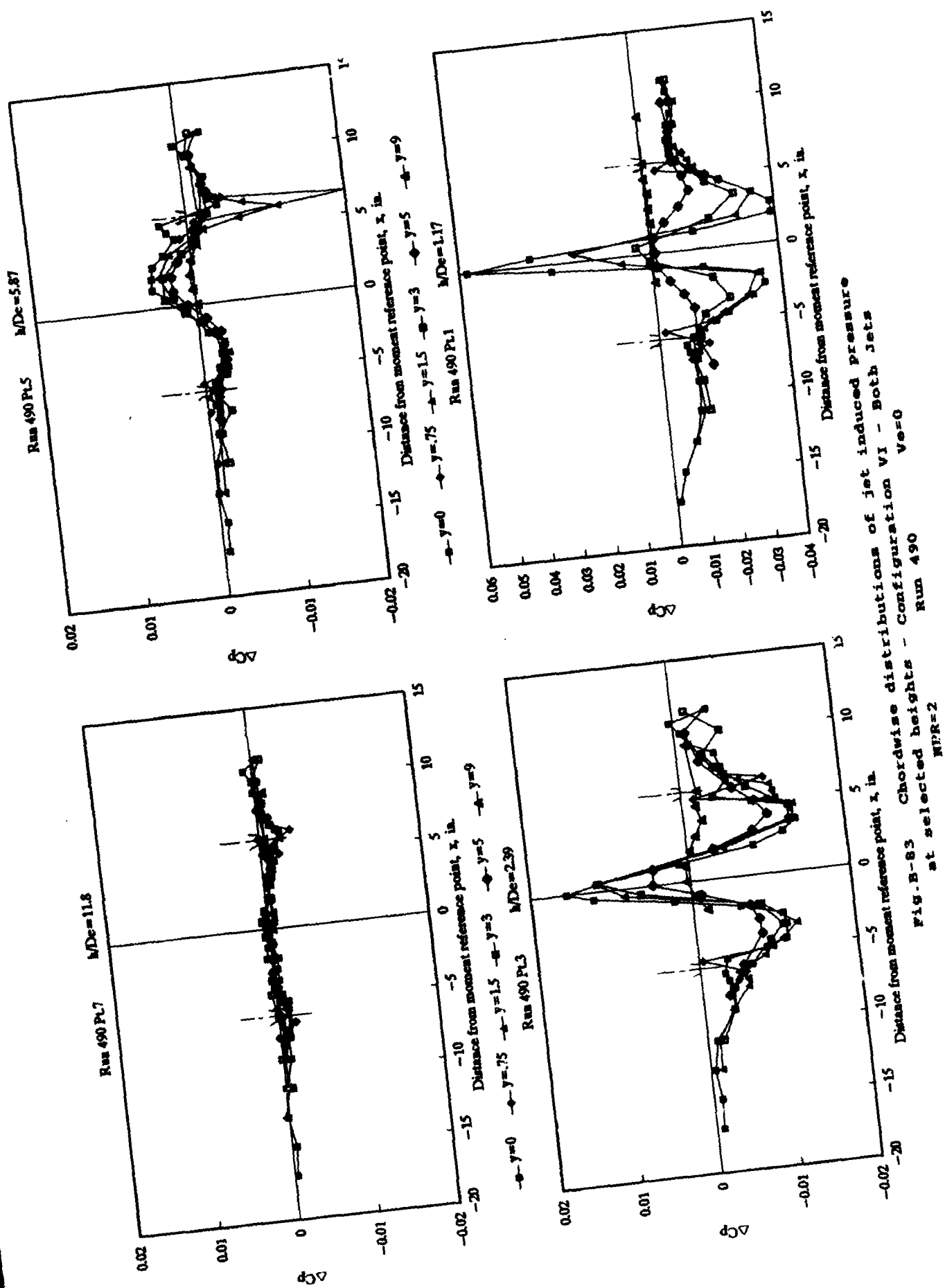


TABLE B-84 JET INDUCED PRESSURE INCREMENTS  
Configuration VI - Both Jets - NPR=2  
Run 487       $Ve=.06$

[illegible]

## Abstracts

Balance	$\Delta D =$	28.4%
Pressure	$\Delta T =$	-0.17%
Balance	$\Delta T =$	-0.14%
Pressure	$\Delta TDe =$	-0.3%
Balance	$\Delta TDe =$	-0.01%

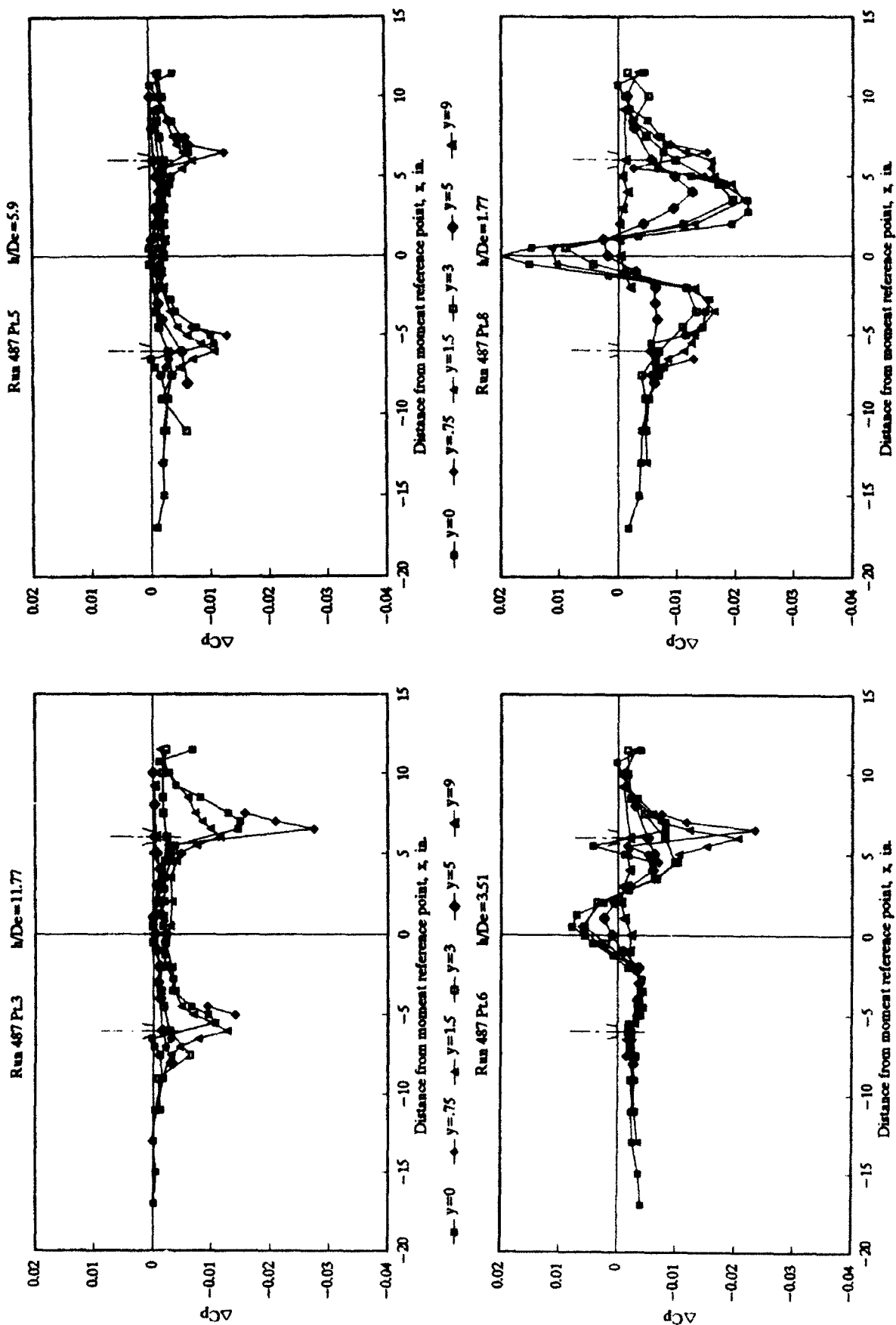


Fig. B-84 Chordwise distributions of jet induced pressure at selected heights - Configuration VI - Both Jets  $Ve=.06$   $NPR=2$  Run 487

TABLE B-85 JET INDUCED PRESSURE INCREMENTS  
Configuration VI - Both Jets - NPR=2  
Run 471 Ve=.08

Point No.	x	y	5			6			7			8			9			10			11				
			17.67 $\Delta\phi$	26.74 $\Delta\phi$	11.83 $\Delta\phi$	8.79 $\Delta\phi$	3.5 $\Delta\phi$	2.32 $\Delta\phi$	1.77 $\Delta\phi$	1.14 $\Delta\phi$	17.67 $\Delta\phi$	26.74 $\Delta\phi$	11.83 $\Delta\phi$	8.79 $\Delta\phi$	3.5 $\Delta\phi$	2.32 $\Delta\phi$	1.77 $\Delta\phi$	1.14 $\Delta\phi$	17.67 $\Delta\phi$	26.74 $\Delta\phi$	11.83 $\Delta\phi$	8.79 $\Delta\phi$	3.5 $\Delta\phi$	2.32 $\Delta\phi$	1.77 $\Delta\phi$
0	-17	0.0004	0.0004	0.0005	0.0005	0.0007	-0.0008	-0.0044	-0.0018	-0.0007	-0.0018	-0.0025	-0.0036	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-18	0.0001	0.0002	0.0003	0.0003	-0.0004	0.0007	-0.0008	-0.0054	-0.0008	-0.0018	-0.0025	-0.0036	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-19	0.0001	0.0001	0.0001	0.0002	-0.0001	0.0001	-0.0003	-0.0008	-0.0008	-0.0018	-0.0025	-0.0036	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-11	-0.0003	-0.0003	-0.0003	-0.0002	-0.0002	-0.0017	-0.0009	-0.0042	-0.0009	-0.0018	-0.0025	-0.0036	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-9	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-7.8	0.0009	0.0009	0.0009	0.0009	0.0008	0.0008	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-7	0.0007	0.0008	0.0008	0.0008	0.0008	0.0016	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-8.5	0.0018	0.0018	0.0018	0.0016	0.0016	0.0016	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-6.5	0.0020	0.0020	0.0020	0.0019	0.0019	0.0019	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-5.5	0.0020	0.0020	0.0020	0.0021	0.0021	0.0021	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-4.5	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-4.5	0.0105	0.0105	0.0105	0.0102	0.0102	0.0102	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.0057	-0.0063	-0.0069	-0.0074	-0.0079	-0.0084	-0.0089	-0.0094	-0.0099	-0.0104
0	-3.5	0.0105	0.0105	0.0105	0.0108	0.0108	0.0108	-0.0004	-0.0005	-0.0005	-0.0015	-0.0022	-0.0033	-0.0044	-0.0051	-0.005									

### Abstracts Summary

1900 - 1901

Reference  $d\sqrt{t} =$  -0.247  
 Theorem 2.6  $d\sqrt{t} =$  -0.238

Parameter	Value
Initial concentration of $\text{H}_2\text{O}_2$ (M)	0.100
Initial concentration of $\text{Fe}^{2+}$ (M)	0.001
Temperature (°C)	25
Time (min)	0, 1, 2, 3, 4, 5, 10, 15, 20, 30, 45, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600, 630, 660, 690, 720, 750, 780, 810, 840, 870, 900, 930, 960, 990, 1020, 1050, 1080, 1110, 1140, 1170, 1200, 1230, 1260, 1290, 1320, 1350, 1380, 1410, 1440, 1470, 1500, 1530, 1560, 1590, 1620, 1650, 1680, 1710, 1740, 1770, 1800, 1830, 1860, 1890, 1920, 1950, 1980, 2010, 2040, 2070, 2100, 2130, 2160, 2190, 2220, 2250, 2280, 2310, 2340, 2370, 2400, 2430, 2460, 2490, 2520, 2550, 2580, 2610, 2640, 2670, 2700, 2730, 2760, 2790, 2820, 2850, 2880, 2910, 2940, 2970, 3000, 3030, 3060, 3090, 3120, 3150, 3180, 3210, 3240, 3270, 3300, 3330, 3360, 3390, 3420, 3450, 3480, 3510, 3540, 3570, 3600, 3630, 3660, 3690, 3720, 3750, 3780, 3810, 3840, 3870, 3900, 3930, 3960, 3990, 4020, 4050, 4080, 4110, 4140, 4170, 4200, 4230, 4260, 4290, 4320, 4350, 4380, 4410, 4440, 4470, 4500, 4530, 4560, 4590, 4620, 4650, 4680, 4710, 4740, 4770, 4800, 4830, 4860, 4890, 4920, 4950, 4980, 5010, 5040, 5070, 5100, 5130, 5160, 5190, 5220, 5250, 5280, 5310, 5340, 5370, 5400, 5430, 5460, 5490, 5520, 5550, 5580, 5610, 5640, 5670, 5700, 5730, 5760, 5790, 5820, 5850, 5880, 5910, 5940, 5970, 6000, 6030, 6060, 6090, 6120, 6150, 6180, 6210, 6240, 6270, 6300, 6330, 6360, 6390, 6420, 6450, 6480, 6510, 6540, 6570, 6600, 6630, 6660, 6690, 6720, 6750, 6780, 6810, 6840, 6870, 6900, 6930, 6960, 6990, 7020, 7050, 7080, 7110, 7140, 7170, 7200, 7230, 7260, 7290, 7320, 7350, 7380, 7410, 7440, 7470, 7500, 7530, 7560, 7590, 7620, 7650, 7680, 7710, 7740, 7770, 7800, 7830, 7860, 7890, 7920, 7950, 7980, 8010, 8040, 8070, 8100, 8130, 8160, 8190, 8220, 8250, 8280, 8310, 8340, 8370, 8400, 8430, 8460, 8490, 8520, 8550, 8580, 8610, 8640, 8670, 8700, 8730, 8760, 8790, 8820, 8850, 8880, 8910, 8940, 8970, 9000, 9030, 9060, 9090, 9120, 9150, 9180, 9210, 9240, 9270, 9300, 9330, 9360, 9390, 9420, 9450, 9480, 9510, 9540, 9570, 9600, 9630, 9660, 9690, 9720, 9750, 9780, 9810, 9840, 9870, 9900, 9930, 9960, 9990

Pressure diffD= 0.042

10

100

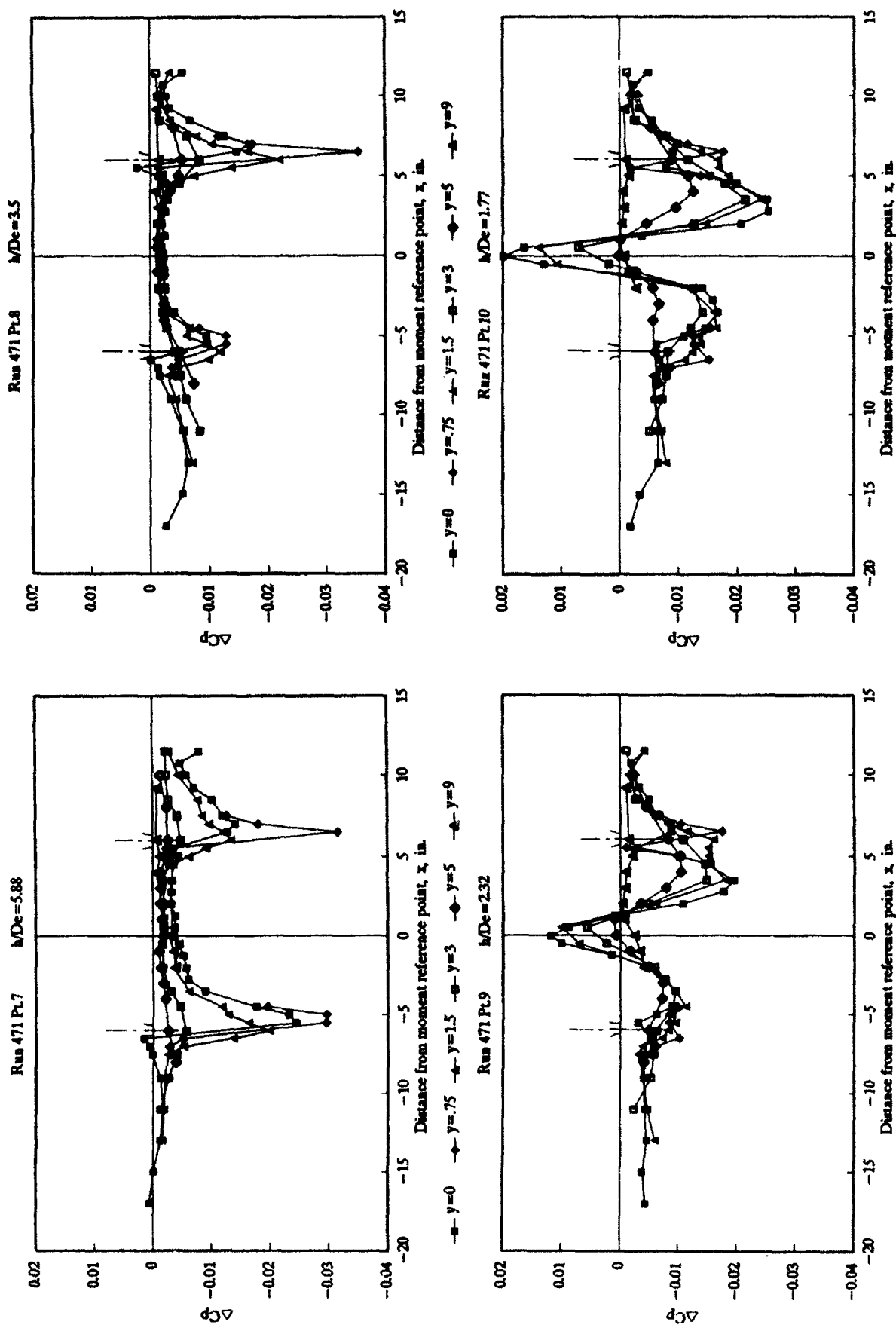


Fig.B-85 Chordwise distributions of jet induced pressure  
at selected heights - Configuration V1 - Both Jets  
NPR=2 Run 471  $Ve=.08$

**Rev. 472**

Free and Moment Summary	
Nodes	Nodes = 1.12
Balance	$dT = -0.527$
Pressure	$dT = -0.926$
Balance	$dWTD = -0.482$
Pressure	$dWTD = -0.298$

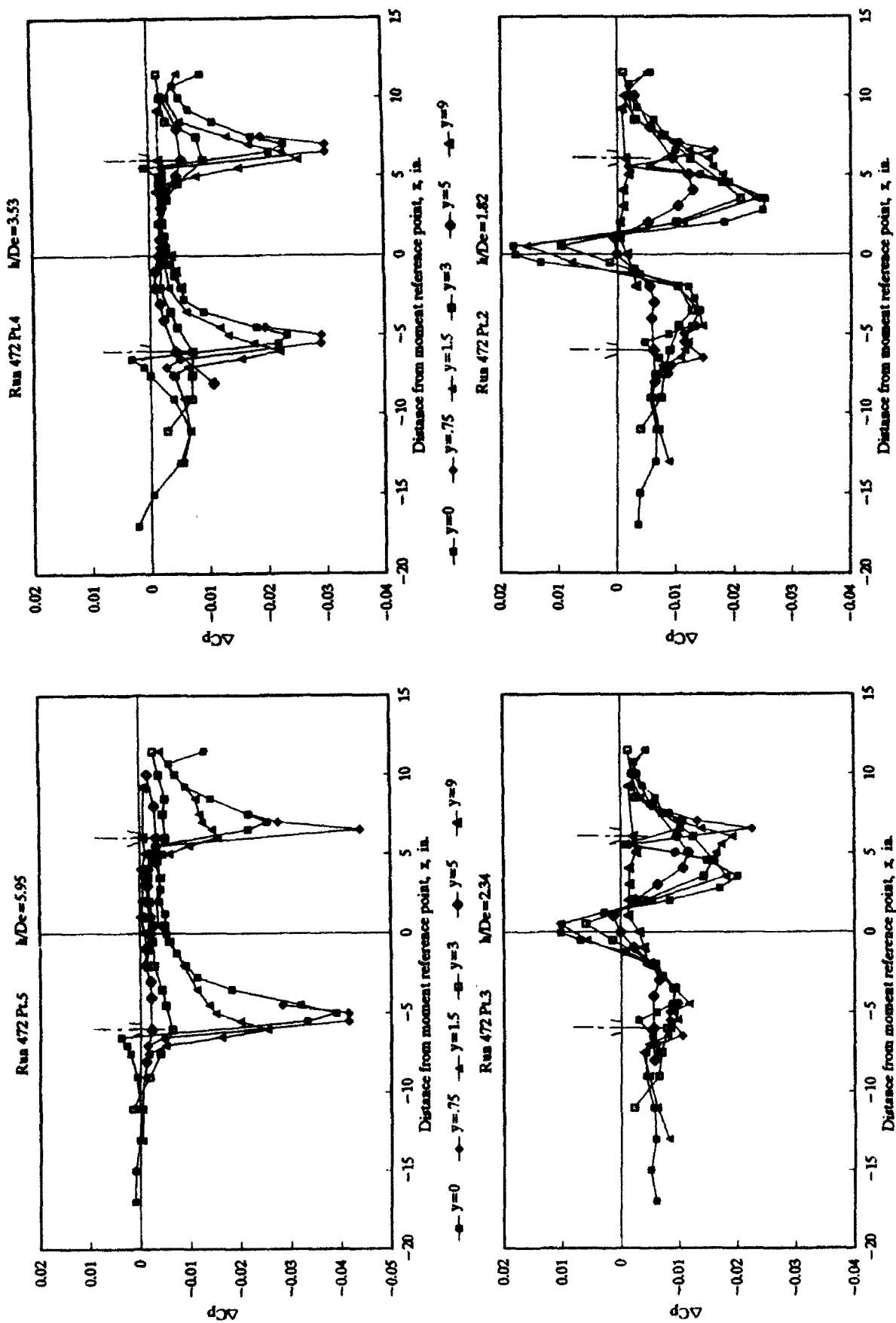


Fig. B-86 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=2  $V_e=1$  Run 472





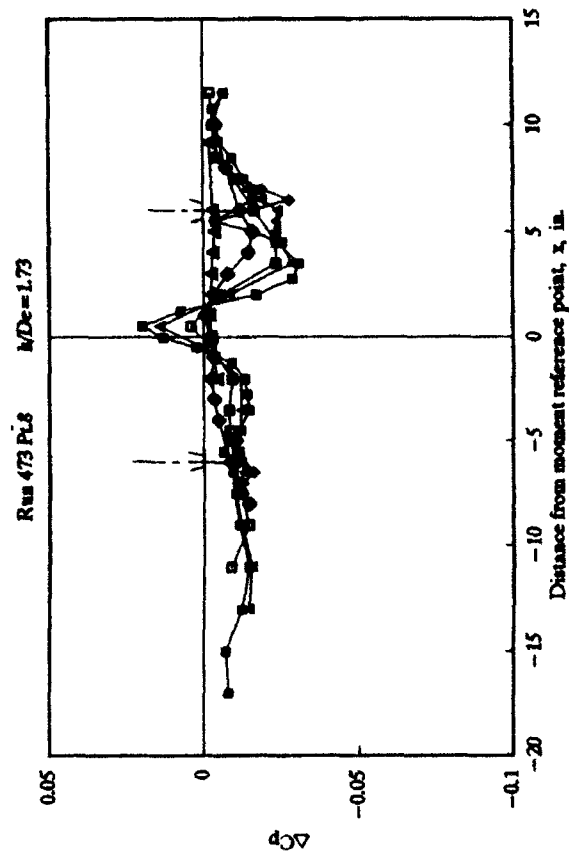
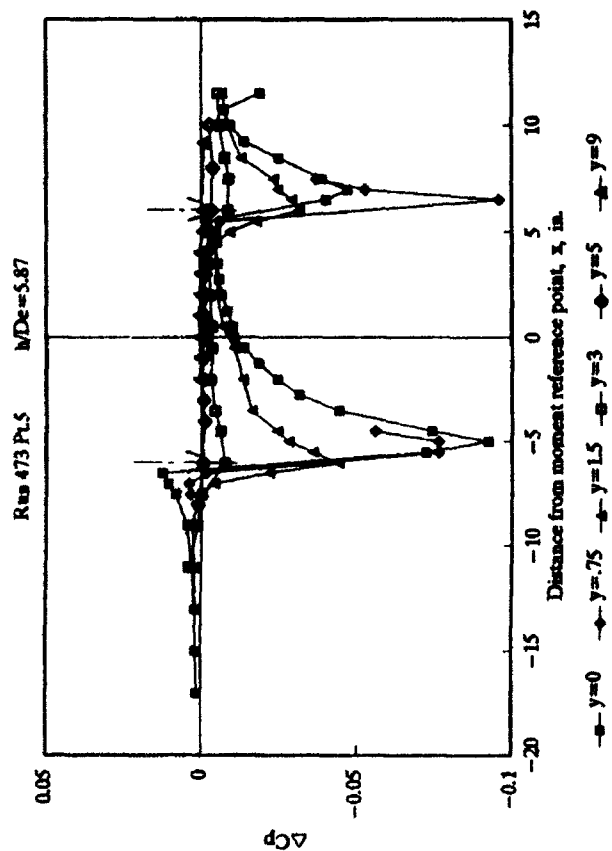
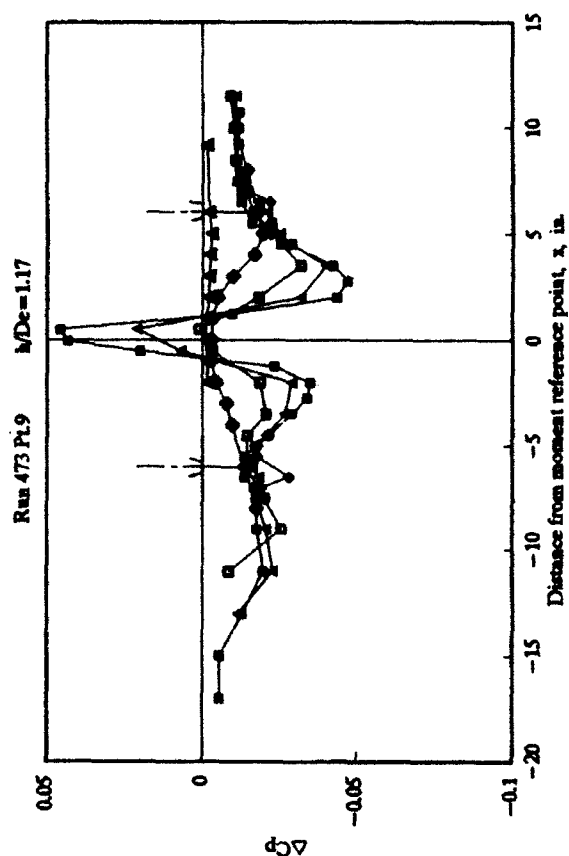
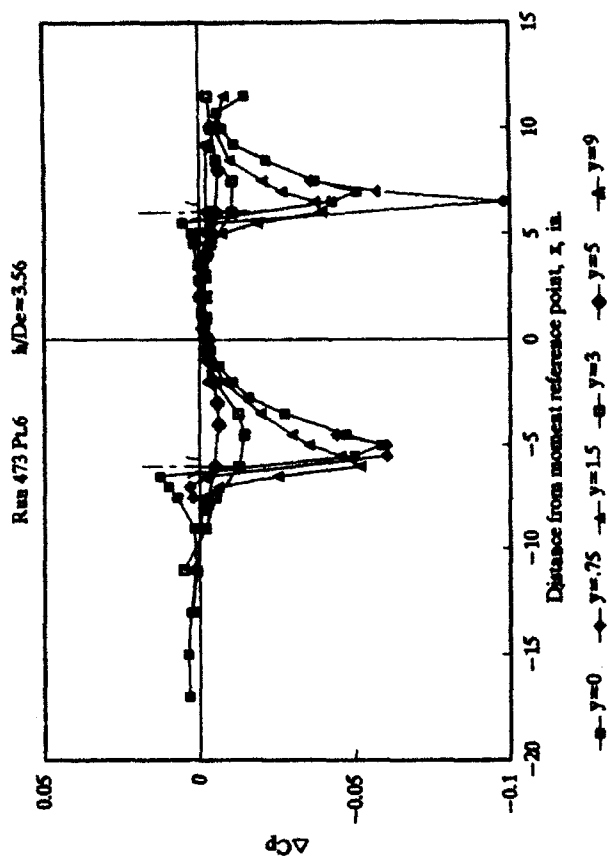


Fig. B-87 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=2 Run 473 Ver.15

Run 474

**KNOWLEDGE MANAGEMENT PLAN**

NOx =	1.1
3-sterne	-1.03
Pressure	-1.16
3-sterne	-0.16
Pressure	-0.14

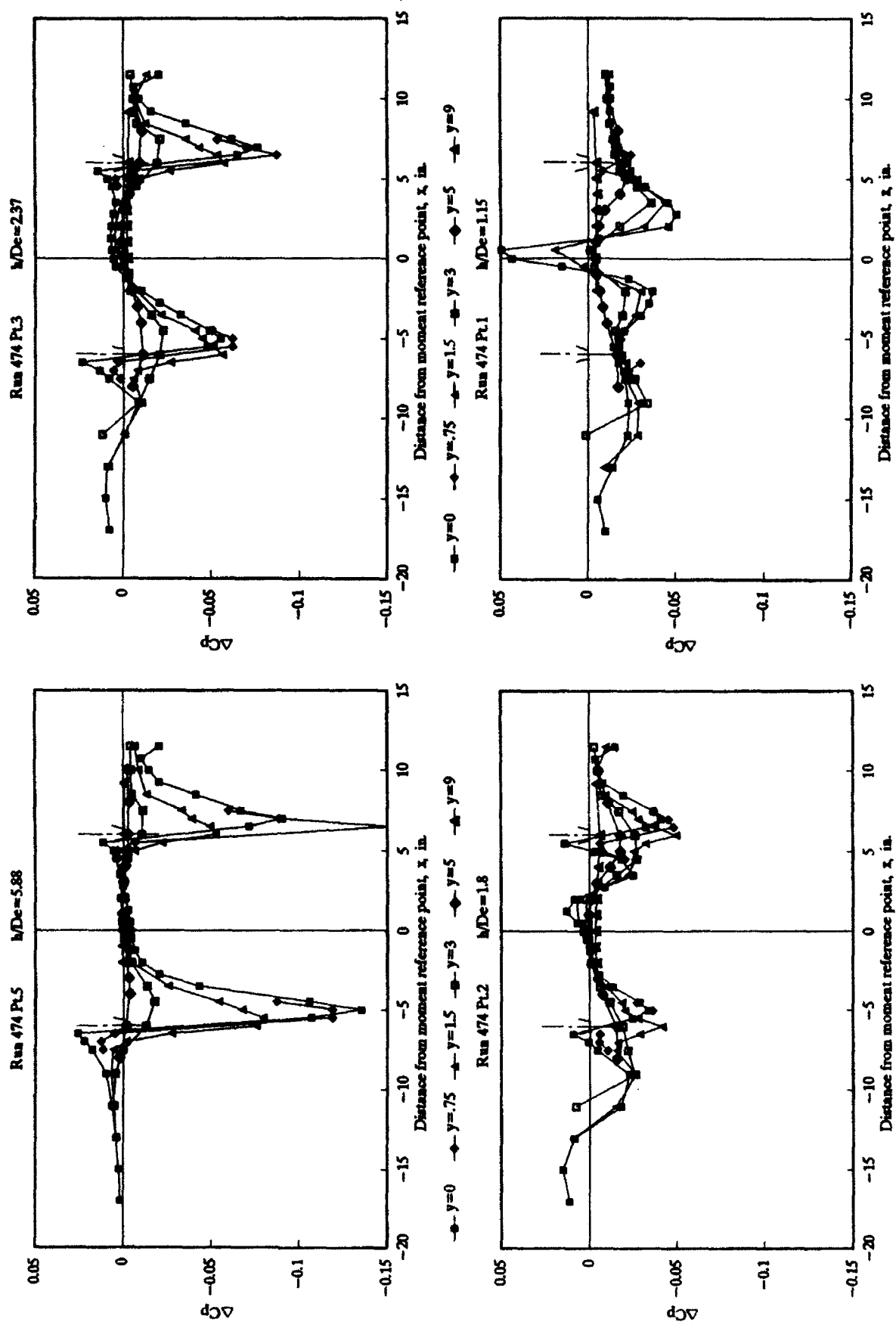


Fig. B-88 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=2 Run 474  $Ve=.2$

TABLE B-89 JET INDUCED PRESSURE INCREMENTS  
Configuration VI - Both Jets - NPR=4

Run 475										Ve=0									
Point hD <sub>0</sub> =	x	y	1 Δp	2 Δp	4 Δp	5 Δp	6 Δp	7 Δp	8 Δp	9 Δp	1 Δp	2 Δp	4 Δp	5 Δp	6 Δp	7 Δp	8 Δp	9 Δp	
-17	0.0000	0	-0.0000	-0.0000	-0.0004	-0.0005	-0.0006	-0.0006	-0.0009	-0.0009	6.5	-0.0005	-0.0007	-0.0029	-0.0098	-0.0078	-0.0069	-0.0126	
-16	0.0000	0	-0.0000	-0.0000	-0.0002	-0.0004	-0.0005	-0.0006	-0.0019	-0.0016	7	-0.0003	-0.0004	-0.0014	-0.0037	-0.0090	-0.0060	-0.0107	
-15	0.0000	0	-0.0002	-0.0002	-0.0003	-0.0005	-0.0006	-0.0009	-0.0024	-0.0017	7.5	-0.0003	-0.0002	-0.0012	-0.0030	-0.0091	-0.0065	-0.0098	
-14	0.0000	0	-0.0003	-0.0003	-0.0004	-0.0006	-0.0009	-0.0020	-0.0030	-0.0023	8.5	-0.0002	-0.0002	-0.0010	-0.0022	-0.0027	-0.0038	-0.0101	
-13	0.0001	0	-0.0001	-0.0001	-0.0005	-0.0007	-0.0009	-0.0021	-0.0042	-0.0031	1.5	0.0001	-0.0001	-0.0004	-0.0029	-0.0022	-0.0010	-0.0112	
-12	0.0001	0	-0.0001	-0.0001	-0.0005	-0.0006	-0.0009	-0.0026	-0.0047	-0.0038	1.5	0.0002	-0.0003	-0.0012	-0.0028	-0.0048	-0.0091	-0.0118	
-11	0.0006	0	-0.0008	-0.0008	-0.0010	-0.0012	-0.0007	-0.0013	-0.0046	-0.0037	3	-0.0001	0.0001	-0.0007	-0.0012	-0.0027	-0.0015	-0.0115	
-10	0.0007	0	-0.0008	-0.0008	-0.0009	-0.0007	-0.0001	-0.0013	-0.0046	-0.0034	3	-0.0004	-0.0004	-0.0007	-0.0012	-0.0028	-0.0043	-0.0121	
-9	0.0007	0	-0.0007	-0.0007	-0.0005	-0.0002	-0.0001	-0.0019	-0.0039	-0.0015	3	-0.0002	-0.0002	-0.0011	-0.0004	-0.0008	-0.0037	-0.0093	
-8	0.0008	0	-0.0007	-0.0007	-0.0004	-0.0002	-0.0001	-0.0027	-0.0054	-0.0015	3	-0.0003	-0.0003	-0.0012	-0.0005	-0.0009	-0.0037	-0.0120	
-7	0.0004	0	-0.0004	-0.0004	-0.0004	-0.0006	-0.0009	-0.0020	-0.0040	-0.0029	3	-0.0002	-0.0002	-0.0013	-0.0006	-0.0004	-0.0035	-0.0113	
-6	0.0004	0	-0.0004	-0.0004	-0.0004	-0.0006	-0.0009	-0.0021	-0.0046	-0.0029	3	-0.0002	-0.0002	-0.0013	-0.0006	-0.0004	-0.0035	-0.0113	
-5	0.0004	0	-0.0004	-0.0004	-0.0004	-0.0006	-0.0009	-0.0021	-0.0046	-0.0029	3	-0.0002	-0.0002	-0.0013	-0.0006	-0.0004	-0.0035	-0.0113	
-4	0.0004	0	-0.0004	-0.0004	-0.0004	-0.0006	-0.0009	-0.0021	-0.0046	-0.0029	3	-0.0002	-0.0002	-0.0013	-0.0006	-0.0004	-0.0035	-0.0113	
-3	0.0004	0	-0.0004	-0.0004	-0.0004	-0.0006	-0.0009	-0.0021	-0.0046	-0.0029	3	-0.0002	-0.0002	-0.0013	-0.0006	-0.0004	-0.0035	-0.0113	
-2	0.0001	0	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	3	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	
-1	0.0000	0	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	3	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	
0	0.0000	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
1	0.0001	0	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
2	0.0002	0	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	3	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	
3	0.0003	0	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	3	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	
4	0.0004	0	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	3	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	
5	0.0005	0	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	3	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	
6	0.0006	0	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	3	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	
7	0.0007	0	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	
8	0.0008	0	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	3	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	
9	0.0009	0	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	3	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	
10	0.0010	0	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	3	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	
11	0.0011	0	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	3	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	
12	0.0012	0	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	3	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	
13	0.0013	0	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	3	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	
14	0.0014	0	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	3	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	
15	0.0015	0	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	3	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	0.0015	
16	0.0016	0	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	3	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	
17	0.0017	0	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	3	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	
18	0.0018	0	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	3	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	
19	0.0019	0	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	3	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	
20	0.0020	0	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	3	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	
21	0.0021	0	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021	3	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021	0.0021	
22	0.0022	0	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	3	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	
23	0.0023	0	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	3	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	
24	0.0024	0	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	3	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	
25	0.0025	0	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	3	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	
26	0.0026	0	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	3	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	
27	0.0027	0	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	3	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	
28	0.0028	0	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	3	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	0.0028	
29	0.0029	0	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	3	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	0.0029	
30	0.0030	0	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	3	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	
31	0.0031	0	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	3	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	
32	0.0032	0	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	3	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	0.0032	
33	0.0033	0	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	3	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	0.0033	
34	0.0034	0	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	3	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	0.0034	
35	0.0035	0	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	3	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	0.0035	
36	0.0036	0	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	3	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	0.0036	
37	0.0037	0	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	3	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	0.0037	
38	0.0038	0	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	3	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	
39	0.0039	0	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	3	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	0.0039	
40	0.0040	0	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	3	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	
41	0.0041	0	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	3	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	0.0041	
42	0.0042	0	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	3	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	0.0042	
43	0.0043	0	0.0043	0.0043	0.0043	0.0043	0.0043	0.0043	0.0043	0.0043	3	0.0043	0.0043	0.0043	0.0043	0.0043	0.0043	0.0043	
44	0.0044	0	0.																

Force and Moment Summary  
hD<sub>0</sub> = 25.91  
Balance dJ = -0.028  
Pressure dJ = -0.017  
Balance dM/D<sub>0</sub> = -0.016  
Pressure dM/D<sub>0</sub> = 0.008

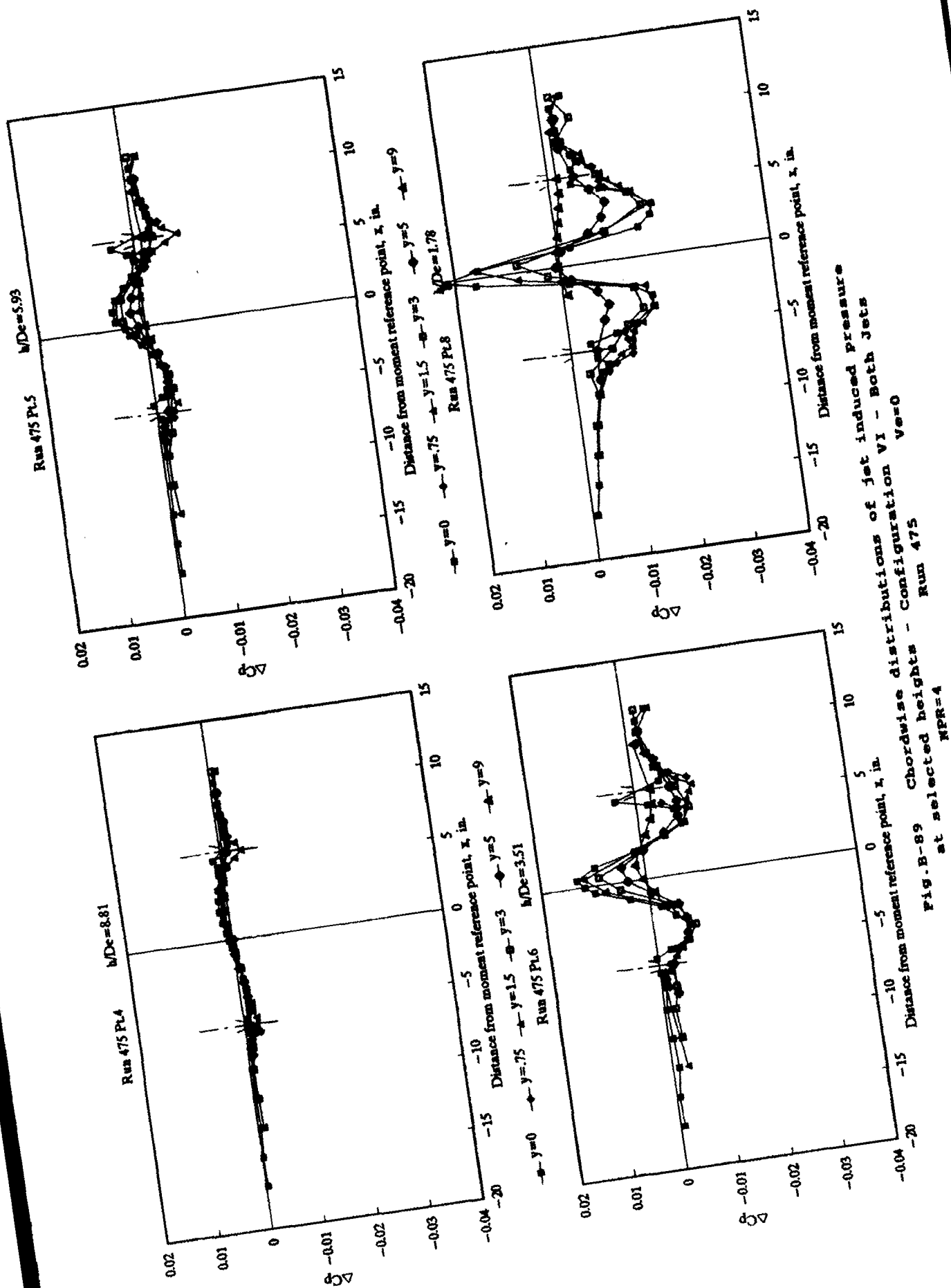


Fig. B-89 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
 $Ve=0$   
Run 475  
MPR=4



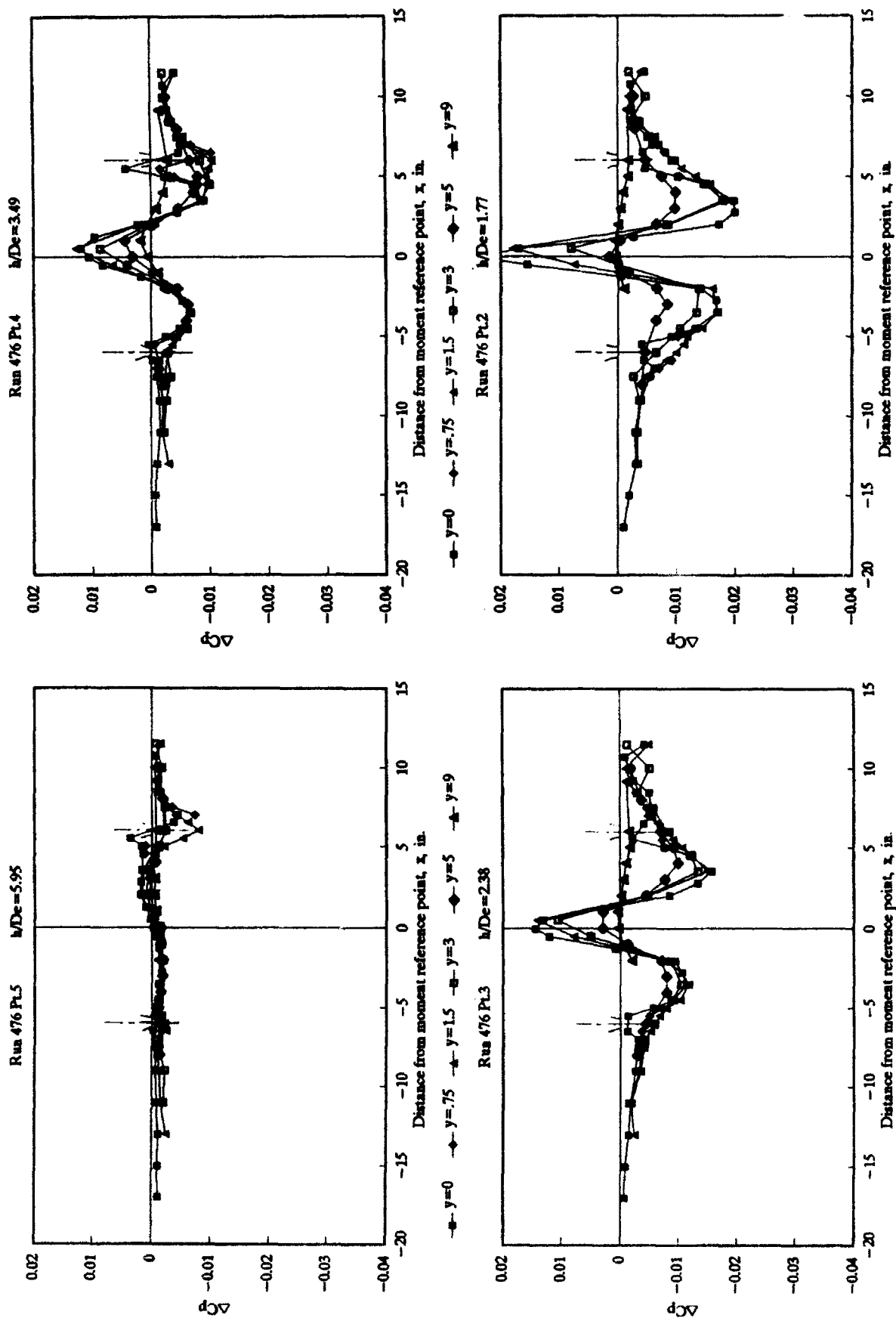


Fig.B-90 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=4 Run 476  $Ve=.02$

TABLE B-91 JET INDUCED PRESSURE INCREMENTS  
Configuration VI - Both Jets - NPR=4  
Run 477 Ve=0.4

Point NDA =	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary  
NDA = 17.66  
Balance dL/T = -0.007  
Pressure dL/T = -0.000  
Balance dM/T = -0.046  
Pressure dM/T = -0.043



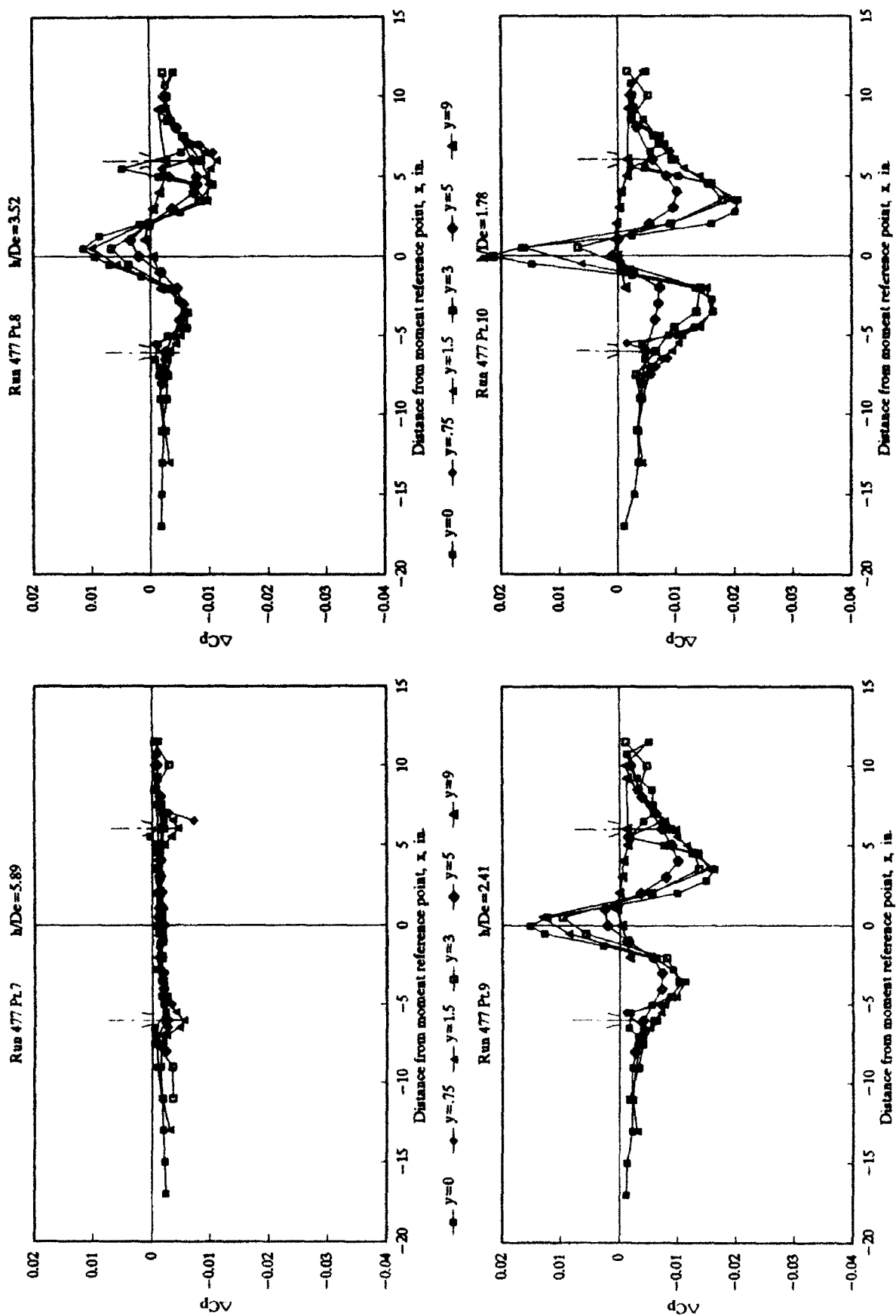


Fig. B-91 Chordwise distributions of jet induced pressure at selected heights - Configuration VI - Both Jets  
NPR=4 Run 477  $Ve=.04$



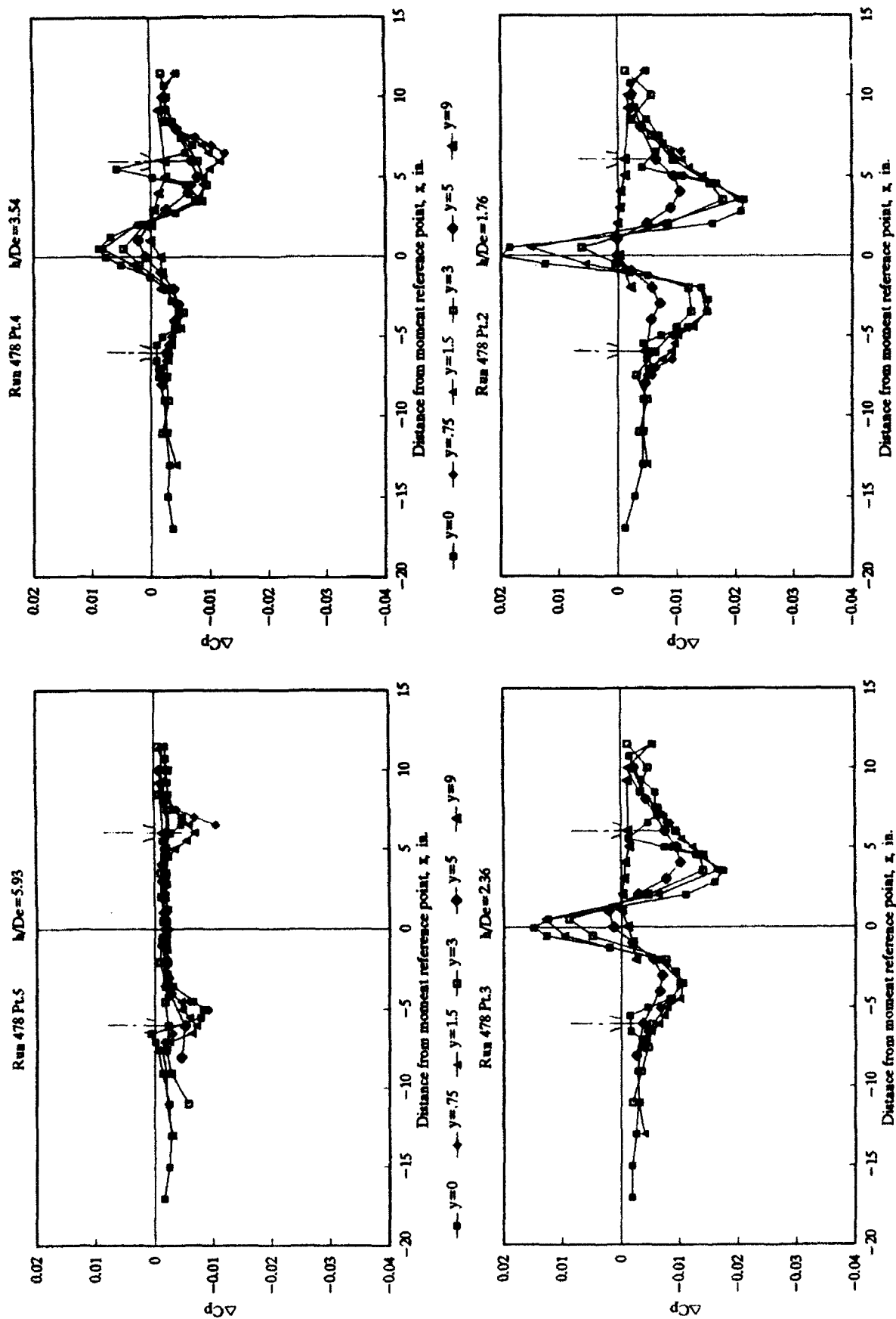


Fig. B-92 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=4 Run 478  $Ve=.06$

TABLE B-93 JET INDUCED PRESSURE INCREMENTS

Configuration VI - Both Jets - NPR=4

Run 479

Ve=.08

Point hDe =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary

hDe =	25.1	17.87	11.82	8.83	5.85	3.82	2.42	1.81	1.2
Balance	dL/T =	-0.178	-0.175	-0.176	-0.185	-0.234	-0.282	-0.350	-0.507
Pressure	dL/T =	-0.180	-0.180	-0.180	-0.180	-0.234	-0.270	-0.354	-0.507
Balance	dM/T =	0.080	0.044	0.088	0.064	0.064	0.078	0.084	0.088
Pressure	dM/T =	0.018	0.014	0.038	0.022	0.022	-0.046	-0.046	-0.202

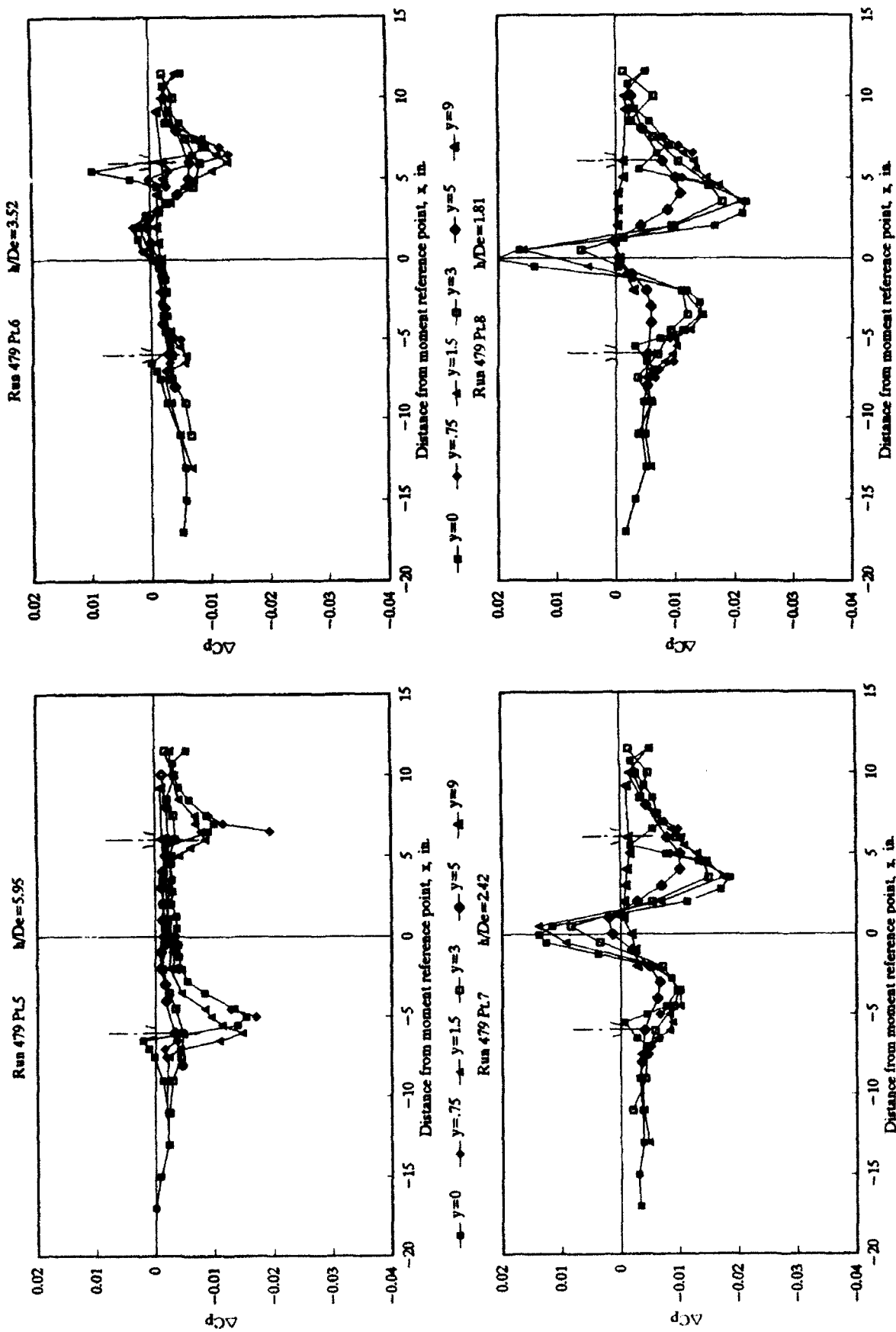


Fig. B-93 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=4 Run 479 Ver. 08

TABLE B-94 JET INDUCED PRESSURE INCREMENTS  
Configuration VI - Both Jets - NPR=4  
Run 480  
Ve=.1

Point y	1 x	1 ΔCp	2 ΔCp	3 ΔCp	4 ΔCp	5 ΔCp	6 ΔCp
0	-17	-0.0010	-0.0022	-0.0033	0.0010	0.0038	
0	-15	-0.0028	-0.0040	-0.0054	-0.0034	0.0028	
0	-13	-0.0096	-0.0081	-0.0094	-0.0042	0.0037	
0	-11	-0.0134	-0.0080	-0.0031	-0.0002	0.0017	
0	-9	-0.0138	-0.0034	-0.0002	0.0002	0.0023	
0	-7.5	-0.0123	-0.0081	-0.0032	0.0018	0.0035	
0	-7	-0.0122	-0.0074	-0.0041	0.0030	0.0049	
0	-6.5	-0.0111	-0.0068	-0.0032	0.0048	0.0059	
0	-5.5	-0.0122	-0.0040	0.0003	0.0047	0.0064	
0	-4.5	-0.0163	-0.0078	0.0034	0.0048	0.0078	
0	-4.5	-0.0205	-0.0112	-0.0087	-0.0082	0.0081	
0	-3.5	-0.0299	-0.0147	-0.0079	-0.0074	0.0105	
0	-2.75	-0.0320	-0.0140	-0.0068	0.0071	0.0082	
0	-2	-0.0275	-0.0127	-0.0043	0.0058	0.0046	
0	-1.25	-0.0072	-0.0048	0.0036	0.0021	0.0039	
0	-0.5	0.0378	0.0128	0.0131	0.0018	-0.0033	
0	-0.05	0.0817	0.0185	0.0148	0.0015	-0.0034	
0	0.5	0.0283	0.0179	0.0142	0.0018	-0.0034	
0	1.25	-0.0138	0.0035	0.0033	0.0013	-0.0022	
0	2	-0.0338	0.0157	-0.0068	0.0015	-0.0013	
0	2.75	-0.0374	0.0219	-0.0158	0.0010	-0.0013	
0	3.5	-0.0348	-0.0227	-0.0180	0.0013	-0.0010	
0	4.5	-0.0348	-0.0227	-0.0180	0.0013	-0.0010	
0	5	-0.0277	-0.0107				
0	5.5	-0.0153	-0.0048				
0	6.5	-0.0083	-0.0077				
0	7	-0.0101	-0.0087				
0	7.5	-0.0083	-0.0083				
0	8.5	-0.0083	-0.0084				
0	9.25	-0.0108	-0.0094				
0	10	-0.0117	-0.0098				
0	10.75	-0.0104	-0.0093				
0	11.5	-0.0094	-0.0084				
0	-7.5	-0.0146	-0.0088	-0.0042	0.0000	0.0012	
0.75	-7	-0.0140	-0.0078	-0.0048	0.0008	0.0016	
0.75	-6.5	-0.0186	-0.0102	-0.0064	-0.0004	-0.0017	
0.75	-5.5	-0.0085	-0.0024	-0.0008	-0.0004	-0.0029	
0.75	-4.5	-0.0170	-0.0084	-0.0038	-0.0074	-0.0239	
0.75	-4.5	-0.0189	-0.0118	-0.0073	-0.0048	-0.0148	
0.75	4.5	-0.0249	-0.0167				
0.75	5	-0.0189	-0.0117				
0.75	5.5	-0.0042	-0.0031				
0.75	6.5	-0.0126	-0.0137				
0.75	7	-0.0114	-0.0114				
0.75	7.5	-0.0089	-0.0081				
1.25	-6	-0.0148	-0.0141	-0.0128	-0.0165	-0.0269	
1.25	6	-0.0170	-0.0185	0.0180	-0.0172	-0.0197	
1.5	-13	-0.0106	-0.0088	-0.0044	-0.0048	0.0017	
1.5	-11	-0.0148	-0.0089	-0.0031	-0.0032	0.0015	
1.5	-9	-0.0138	-0.0080	-0.0028	-0.0018	0.0014	
1.5	-7.5	-0.0128	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-6.5	-0.0128	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-5.5	-0.0138	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-4.5	-0.0148	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-3.5	-0.0089	-0.0148	-0.0089	-0.0089	0.0030	
1.5	-2.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	-1.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	-0.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	0.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	1.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	2.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	3.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	4.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	5.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	6.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	7.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	8.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	9.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	10.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	11.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	

Point y	1 x	1 ΔCp	2 ΔCp	3 ΔCp	4 ΔCp	5 ΔCp	6 ΔCp
0	-17	-0.0010	-0.0022	-0.0033	0.0010	0.0038	
0	-15	-0.0028	-0.0040	-0.0054	-0.0034	0.0028	
0	-13	-0.0096	-0.0081	-0.0094	-0.0042	0.0037	
0	-11	-0.0134	-0.0080	-0.0031	-0.0002	0.0017	
0	-9	-0.0138	-0.0034	-0.0002	0.0002	0.0023	
0	-7.5	-0.0123	-0.0081	-0.0032	0.0018	0.0035	
0	-7	-0.0122	-0.0074	-0.0041	0.0030	0.0049	
0	-6.5	-0.0111	-0.0068	-0.0032	0.0048	0.0059	
0	-5.5	-0.0122	-0.0040	0.0003	0.0047	0.0064	
0	-4.5	-0.0163	-0.0078	0.0034	0.0048	0.0078	
0	-4.5	-0.0205	-0.0112	-0.0087	-0.0082	0.0081	
0	-3.5	-0.0299	-0.0147	-0.0079	-0.0074	0.0105	
0	-2.75	-0.0320	-0.0140	-0.0068	0.0071	0.0082	
0	-2	-0.0275	-0.0127	-0.0043	0.0058	0.0046	
0	-1.25	-0.0072	-0.0048	0.0036	0.0021	0.0039	
0	-0.5	0.0378	0.0128	0.0131	0.0018	-0.0033	
0	-0.05	0.0817	0.0185	0.0148	0.0015	-0.0034	
0	0.5	0.0283	0.0179	0.0142	0.0018	-0.0034	
0	1.25	-0.0138	0.0035	0.0033	0.0013	-0.0022	
0	2	-0.0338	0.0157	-0.0068	0.0015	-0.0013	
0	2.75	-0.0374	0.0219	-0.0158	0.0010	-0.0013	
0	3.5	-0.0348	-0.0227	-0.0180	0.0013	-0.0010	
0	4.5	-0.0348	-0.0227	-0.0180	0.0013	-0.0010	
0	5	-0.0277	-0.0107				
0	5.5	-0.0153	-0.0048				
0	6.5	-0.0083	-0.0077				
0	7	-0.0101	-0.0087				
0	7.5	-0.0083	-0.0083				
0	8.5	-0.0083	-0.0084				
0	9.25	-0.0108	-0.0094				
0	10	-0.0117	-0.0098				
0	10.75	-0.0104	-0.0093				
0	11.5	-0.0094	-0.0084				
0	-7.5	-0.0146	-0.0088	-0.0042	0.0000	0.0012	
0.75	-7	-0.0140	-0.0078	-0.0048	0.0008	0.0016	
0.75	-6.5	-0.0186	-0.0102	-0.0064	-0.0004	-0.0017	
0.75	-5.5	-0.0085	-0.0024	-0.0008	-0.0004	-0.0029	
0.75	-4.5	-0.0170	-0.0084	-0.0038	-0.0074	-0.0239	
0.75	-4.5	-0.0189	-0.0118	-0.0073	-0.0048	-0.0148	
0.75	4.5	-0.0249	-0.0167				
0.75	5	-0.0189	-0.0117				
0.75	5.5	-0.0042	-0.0031				
0.75	6.5	-0.0126	-0.0137				
0.75	7	-0.0114	-0.0114				
0.75	7.5	-0.0089	-0.0081				
1.25	-6	-0.0148	-0.0141	-0.0128	-0.0165	-0.0269	
1.25	6	-0.0170	-0.0185	0.0180	-0.0172	-0.0197	
1.5	-13	-0.0106	-0.0088	-0.0044	-0.0048	0.0017	
1.5	-11	-0.0148	-0.0089	-0.0031	-0.0032	0.0015	
1.5	-9	-0.0138	-0.0080	-0.0028	-0.0018	0.0014	
1.5	-7.5	-0.0128	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-6.5	-0.0128	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-5.5	-0.0138	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-4.5	-0.0148	-0.0081	-0.0028	-0.0028	0.0032	
1.5	-3.5	-0.0089	-0.0148	-0.0089	-0.0089	0.0030	
1.5	-2.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	-1.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	-0.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	0.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	1.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	2.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	3.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	4.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	5.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	6.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	7.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	8.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	9.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	10.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	
1.5	11.5	-0.0079	-0.0148	-0.0089	-0.0089	0.0030	

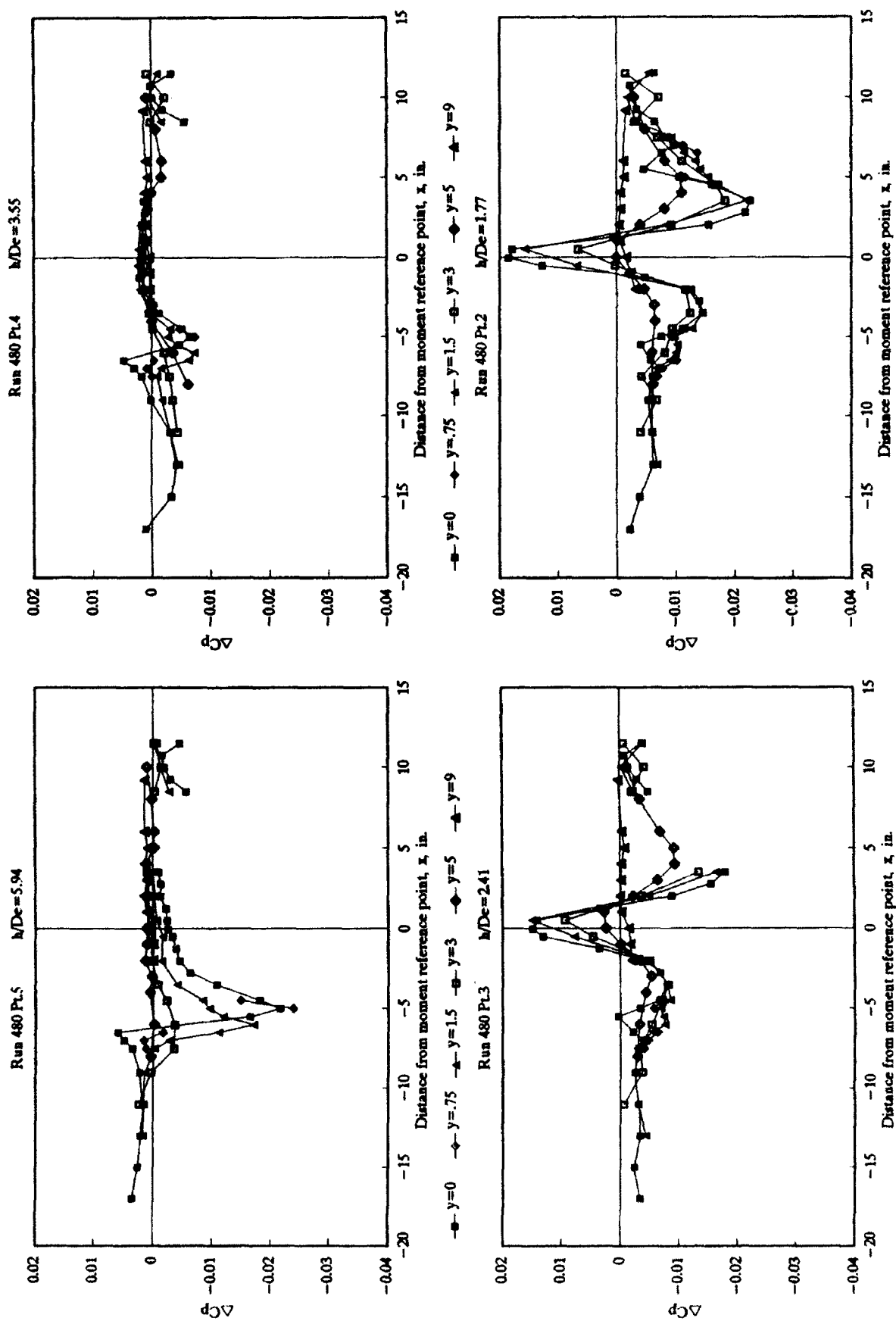


Fig. B-94 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=4 Run 480  $Ve=.1$





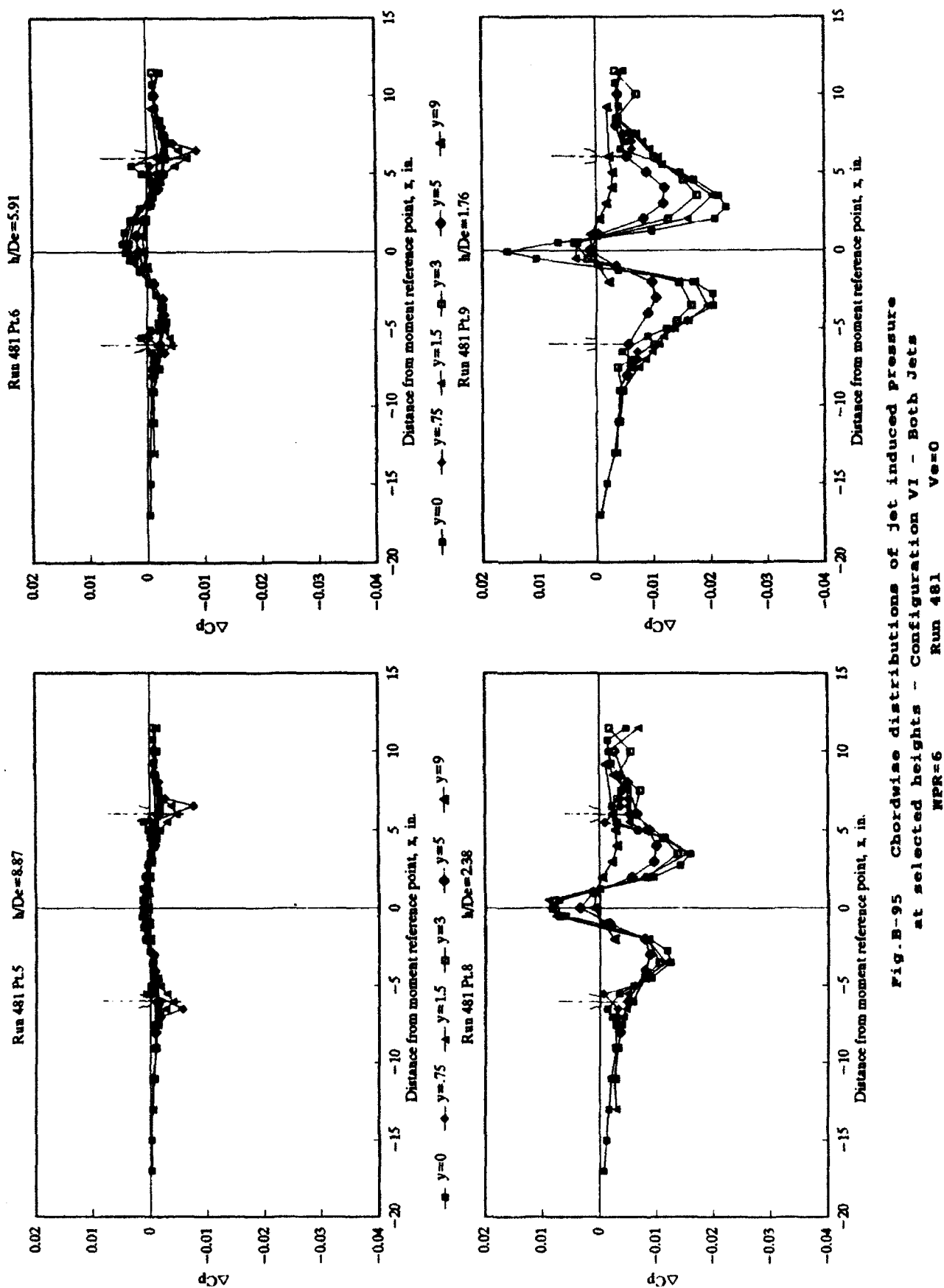


Fig. B-95 Chordwise distributions of jet induced pressure at selected heights - Configuration VI - Both Jets  $WPR=6$   $Run\ 481$   $Ve=0$



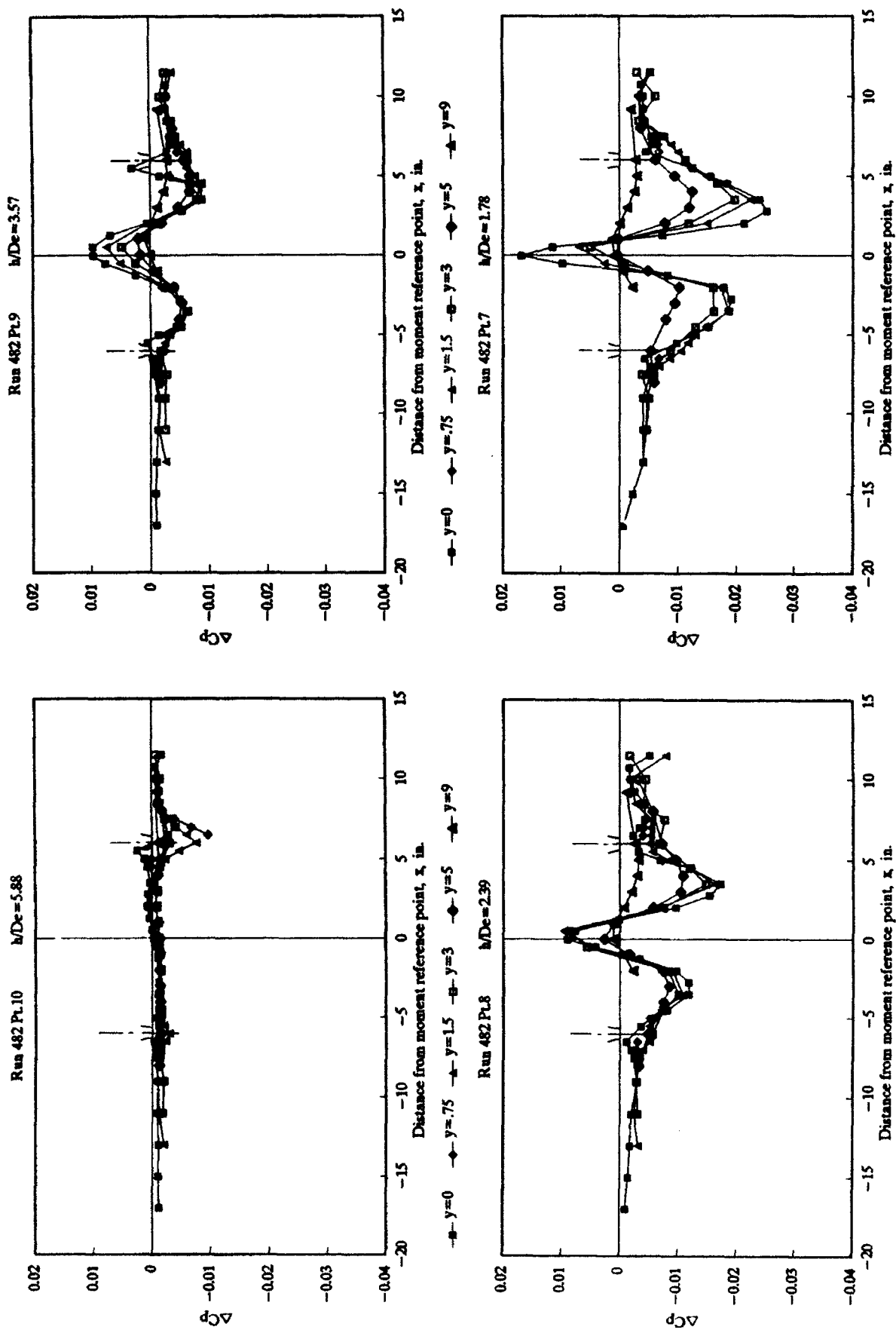


Fig.B-96 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=6 Run 482  $Ve=0.02$

Run 483

N/Ds =	24.52	17.67	11.8	8.89	3.64	2.36	1.78	1.16
d/J =	-0.073	-0.068	-0.108	-0.119	-0.170	-0.259	-0.426	-0.694
Balance								
d/J =	-0.090	-0.078	-0.097	-0.108	-0.160	-0.231	-0.388	-0.633
Pressure								
d/MDs =	-0.107	-0.28	-0.164	-0.178	-0.229	-0.152	-0.205	-0.311
Balance								
d/MDs =	-0.030	-0.041	-0.060	-0.065	-0.112	-0.229	-0.250	-0.172
Pressure								

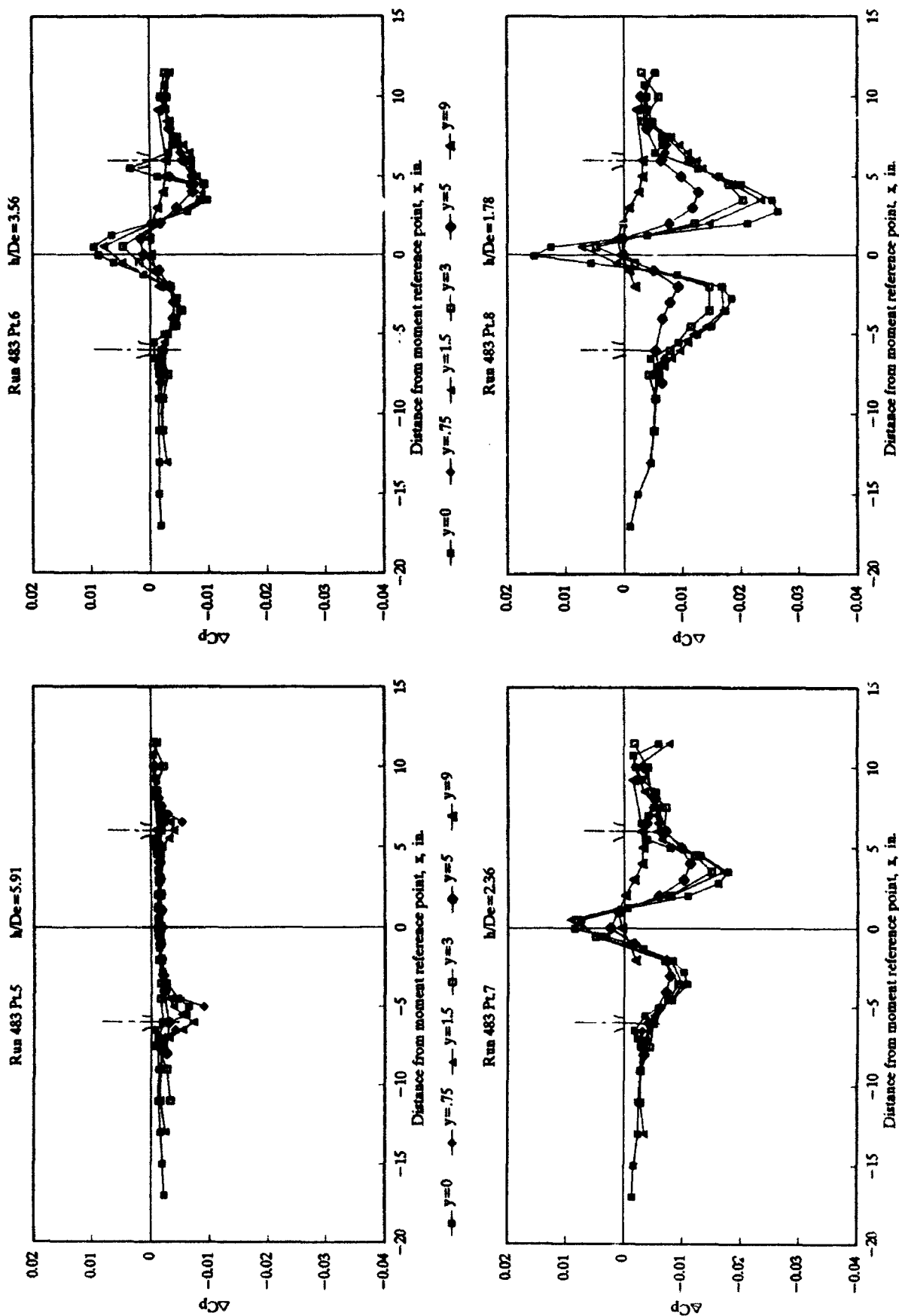


Fig.B-97 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=6 Run 483  $Ve=.04$



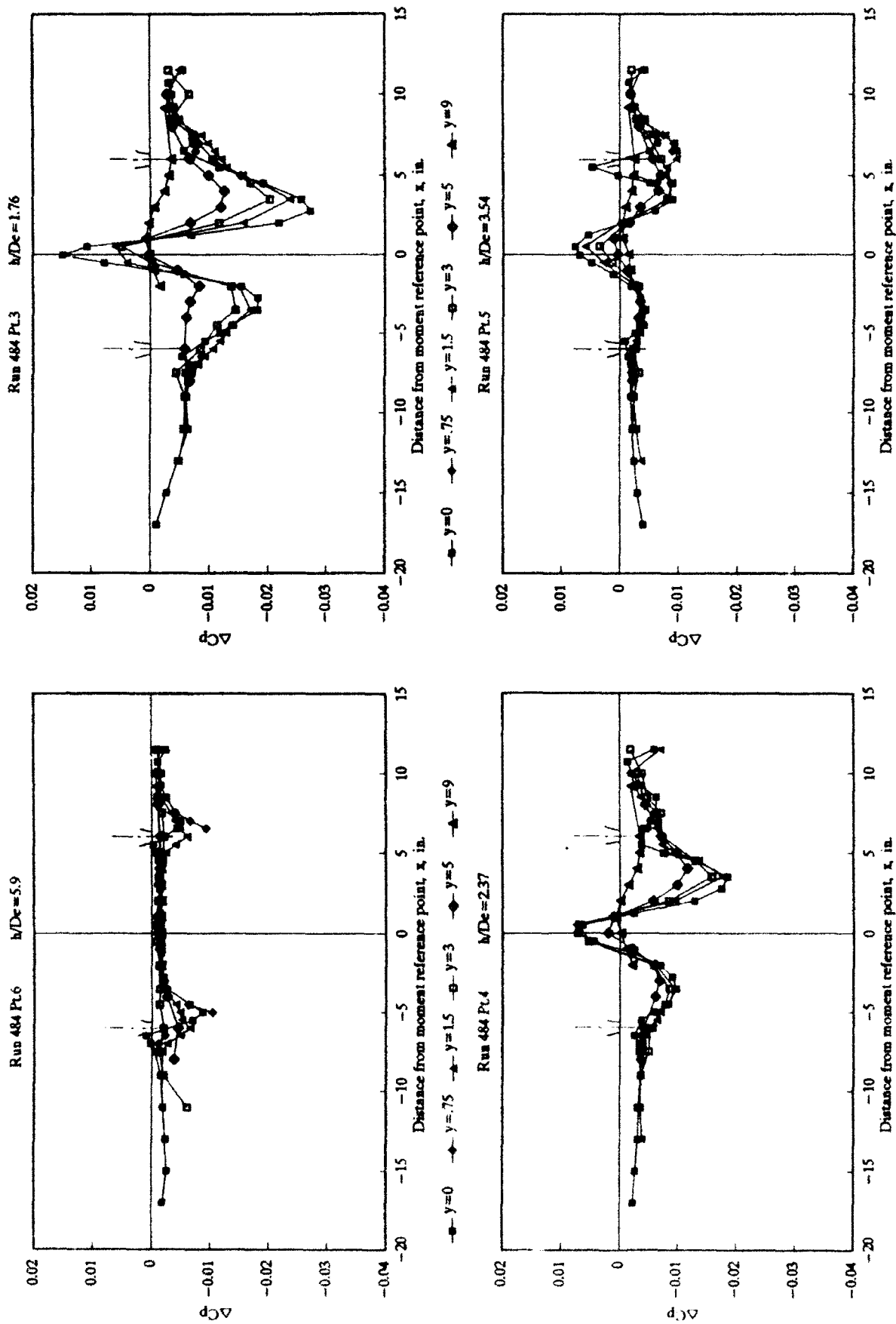
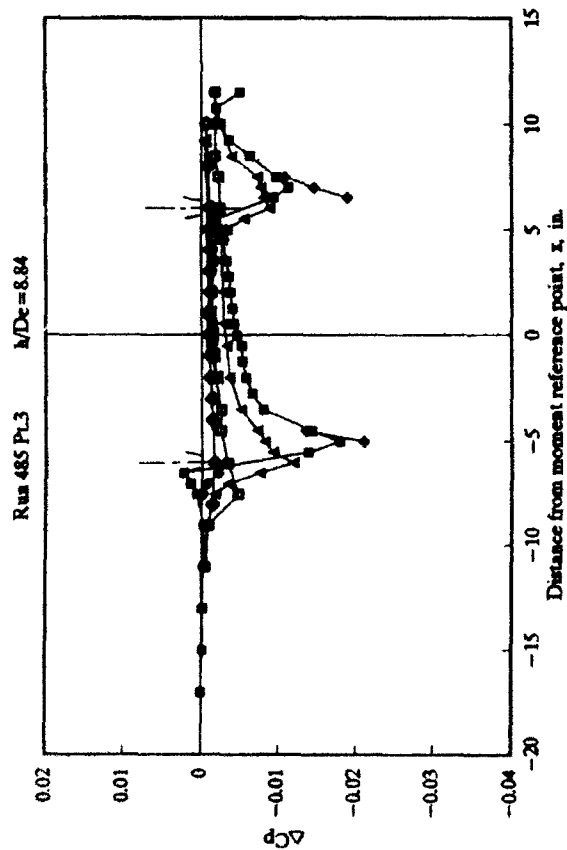


Fig. B-98 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=6 Run 484  $Ve=0.06$

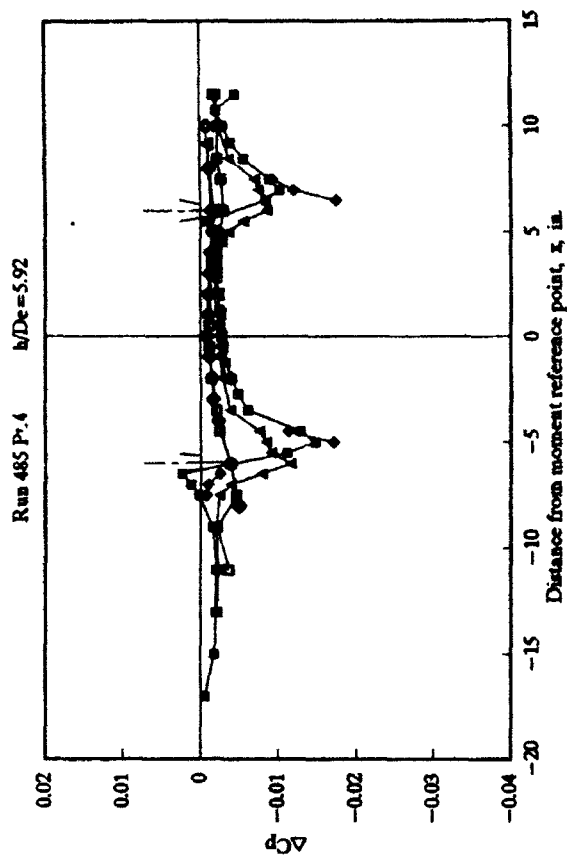
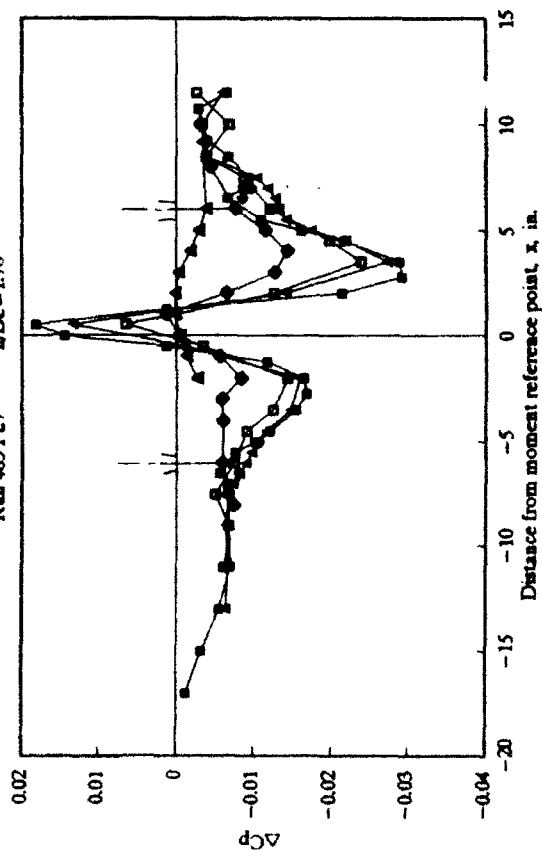
Run 485

Force and Moment Summary				
	$h/D_0 =$	24.94	17.64	6.92
Stress	$d/T =$	-0.191	-0.164	-0.239
Pressure	$d/T =$	-0.140	-0.141	-0.172
Bulge	$d/DT_0 =$	-0.034	0.005	0.258
Pressure	$d/DT_0 =$	0.018	0.035	0.088
				0.048
				-0.175
				1.70
				-0.648
				-0.785
				-0.131
				0.470
				0.048
				-0.175





Run 485 Pt.7  $h/De=1.76$



Run 485 Pt.8  $h/De=1.23$

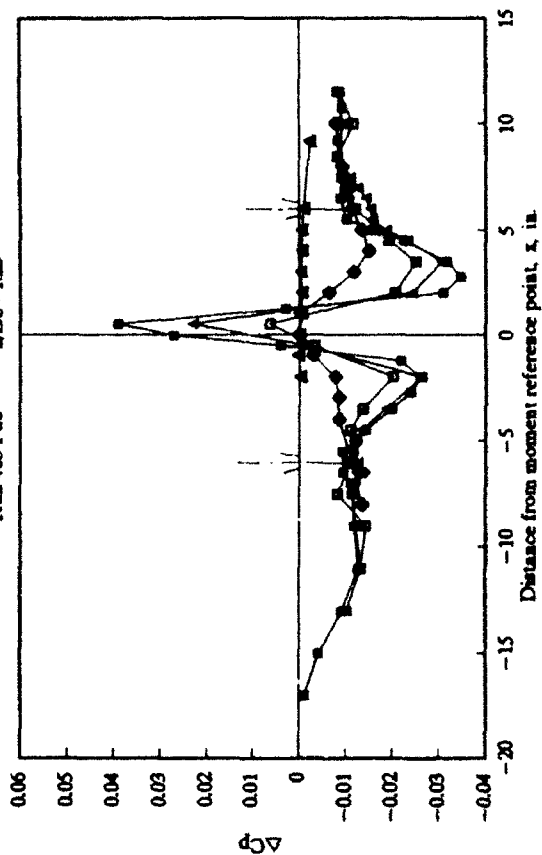


Fig.B-99 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets

NPR=6 Run 485 Ver.08

TABLE B-100 JET INDUCED PRESSURE INCREMENTS  
Configuration VI - Both Jets ~ NPR=6

[illegible]

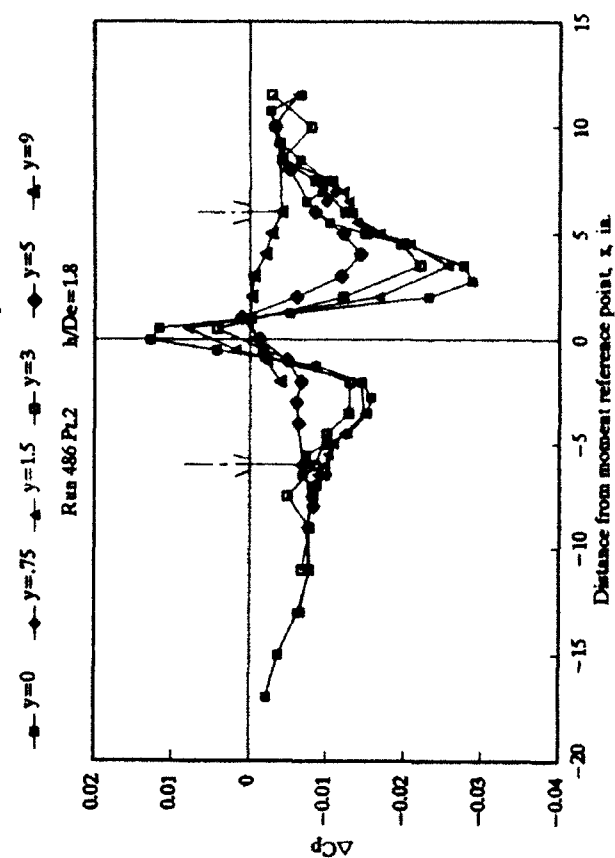
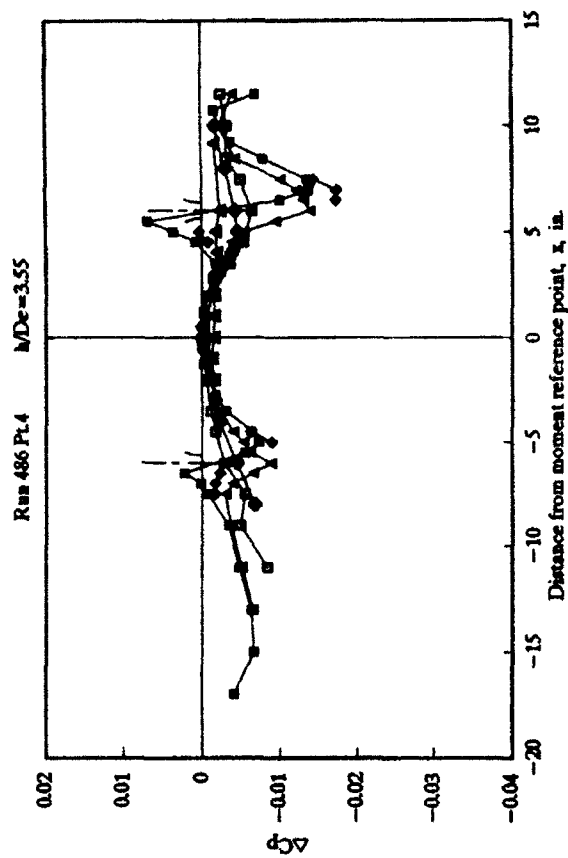
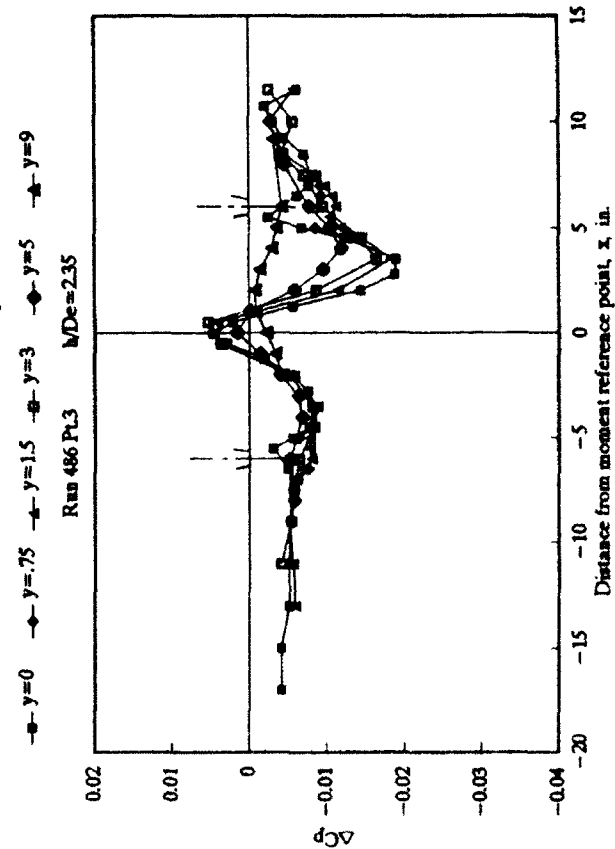
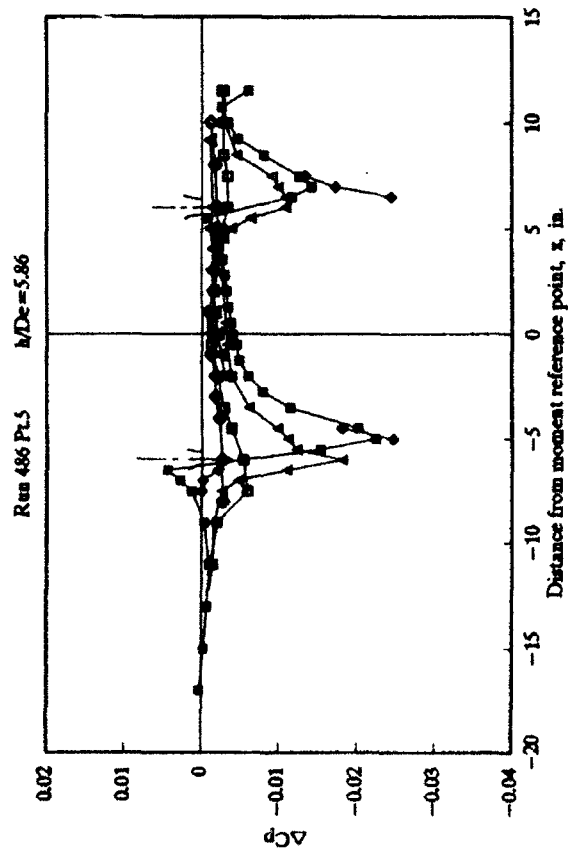


Fig.B-100 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VI - Both Jets  
NPR=6 Run 486 Ver.1

TABLE B-101 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=2  
Run 491  $V_e=0$

[illegible]

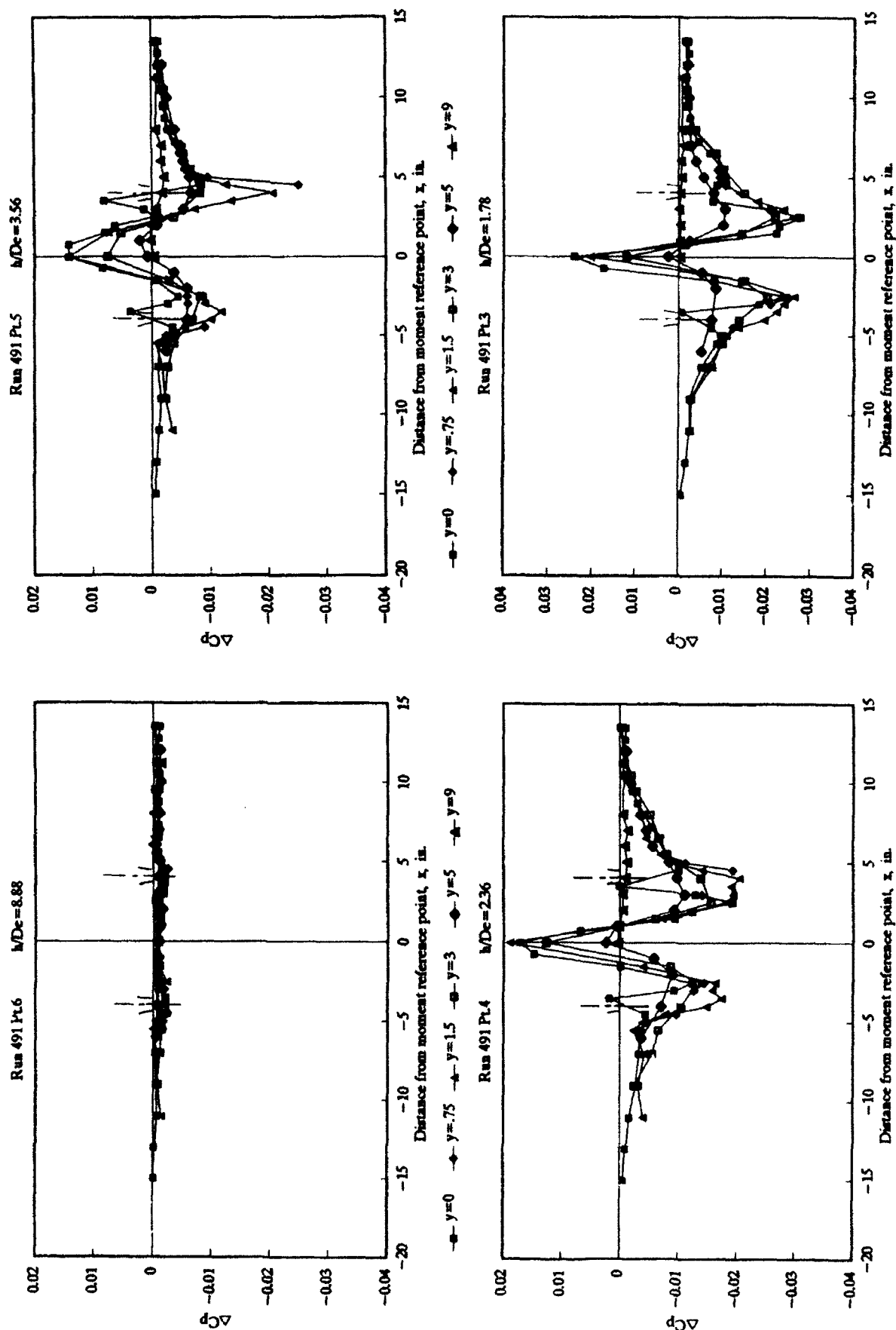


Fig.B-101 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
NPR=2 Run 491  $Ve=0$

TABLE B-102 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=2  
Run 492 Ve=.02

[illegible]

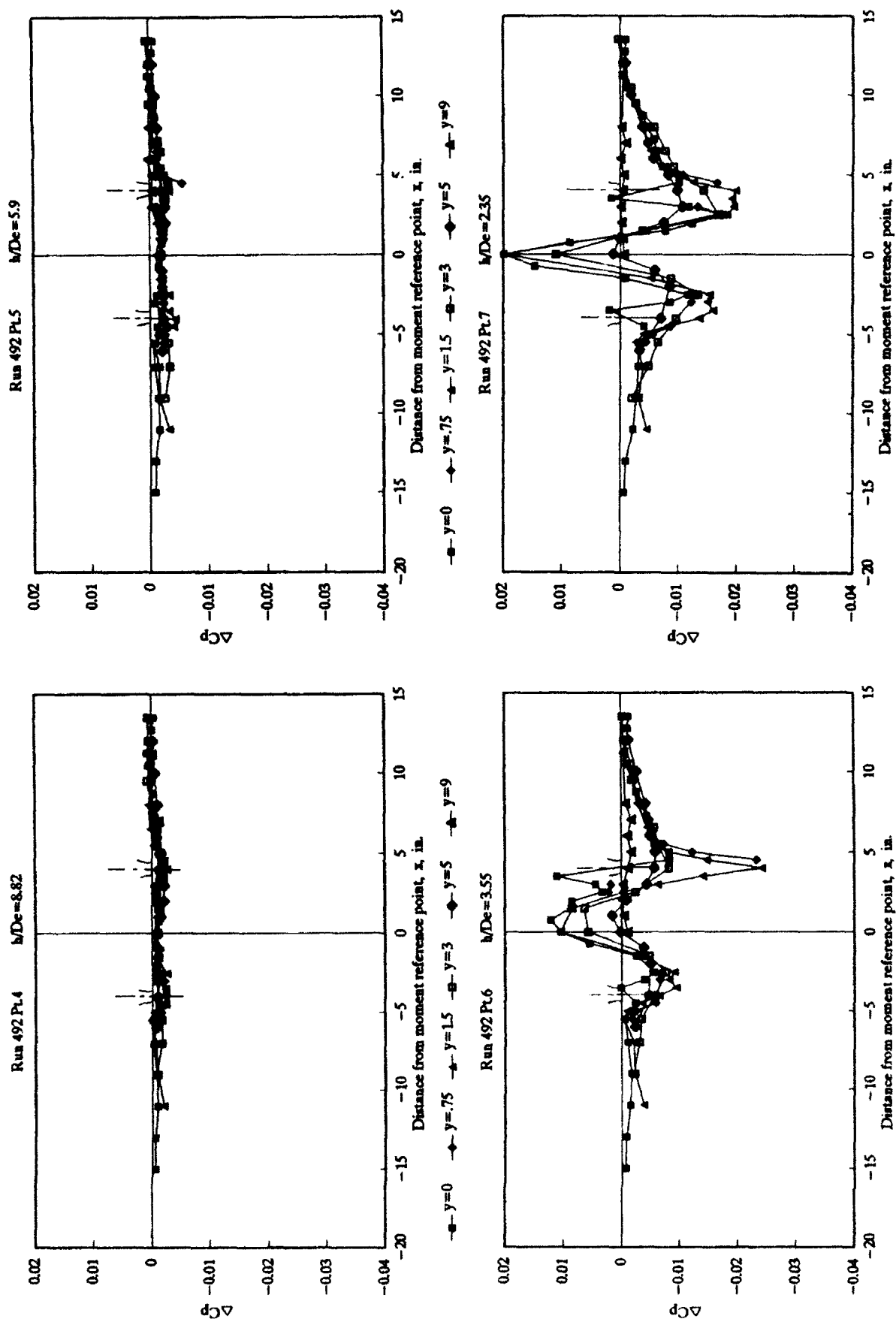


Fig.B-102 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
NPR=2 Run 492  $Ve=.02$

TABLE B-103 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=2

Run 493

Ve=.04

Point h/D =	1	2	3	4	5	6	7	8	9
y	Δp	Δp	Δp	Δp	Δp	Δp	Δp	Δp	Δp
0	-18	-0.008	-0.0008	-0.0013	-0.0019	-0.0021	0.0014	-0.0032	0.0000
0	-13	-0.0061	-0.0029	-0.0015	-0.0018	-0.0020	-0.0008	-0.0003	-0.0001
0	-11	-0.0074	-0.0034	-0.0027	-0.0020	-0.0026	-0.0010	-0.0015	-0.0010
0	-9	-0.0110	-0.0058	-0.0062	-0.0023	-0.0018	-0.0018	-0.0014	-0.0011
0	-8	-0.0084	-0.0046	-0.0033	-0.0016	-0.0012	-0.0010	-0.0008	-0.0006
0	-6.9	-0.0113	-0.0065	-0.0027	-0.0010	-0.0010	-0.0007	-0.0007	-0.0006
0	-6	-0.0138	-0.0090	-0.0047	-0.0016	-0.0016	-0.0008	-0.0008	-0.0008
0	-4.6	-0.0108	-0.0074	-0.0044	-0.0018	-0.0012	-0.0008	-0.0006	-0.0006
0	-3.6	-0.0144	-0.0094	-0.0077	-0.0018	-0.0007	-0.0003	-0.0004	-0.0004
0	-2.5	-0.0147	-0.0164	-0.0078	-0.0048	-0.0029	-0.0042	-0.0035	-0.0027
0	-1.5	-0.0068	-0.0030	-0.0016	-0.0007	-0.0026	-0.0034	-0.0020	-0.0017
0	-0.75	-0.0048	-0.0010	-0.0016	-0.0048	-0.0038	-0.0008	-0.0008	-0.0010
0	0	0.0075	0.0074	0.0130	0.0049	-0.0016	-0.0011	-0.0007	-0.0003
0	0	0.0075	0.0087	0.0187	0.0049	-0.0021	-0.0007	-0.0017	-0.0014
0	0.75	-0.0068	-0.0063	-0.0039	-0.0084	-0.0062	-0.0019	-0.0017	-0.0016
0	1.5	-0.0068	-0.0043	-0.0100	-0.0085	-0.0016	-0.0018	-0.0017	-0.0017
0	1.95	-0.0069	-0.0042	-0.0119	-0.0086	-0.0016	-0.0016	-0.0016	-0.0016
0	3	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
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0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
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0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
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0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016	-0.0017	-0.0016
0	3.5	-0.0073	-0.0054	-0.0132	-0.0094	-0.0016	-0.0016		

Force and Moment Summary  
N/D = 1.19  
Balance d/L = -0.707  
Pressure d/L = -0.483  
Balance d/LTD = 0.307  
Pressure d/LTD = 0.129



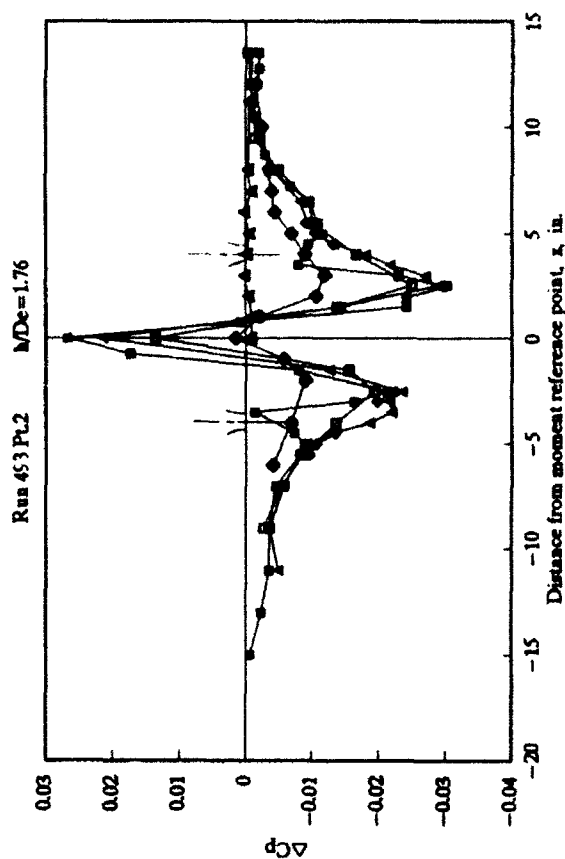
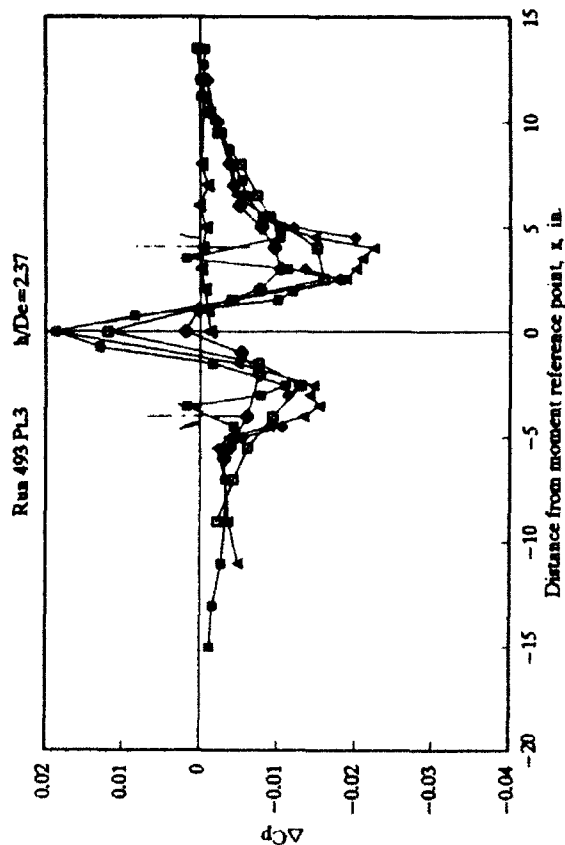
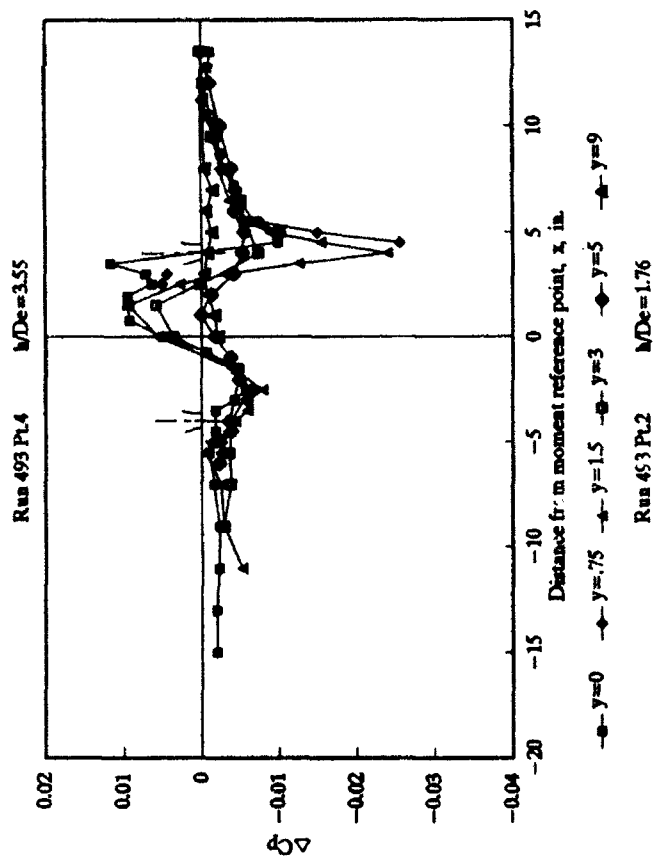
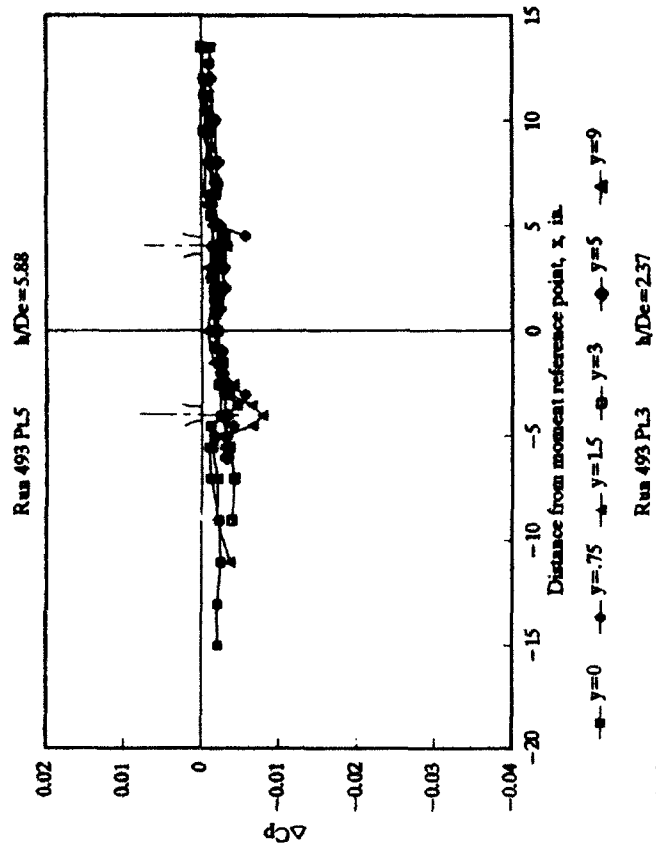


Fig. B-103 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
NPR=2 Run 493  $Ve=.04$

TABLE B-104 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=2  
Run 494 Ve=0.06

Point NDA =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary

NDA =	28.7	17.67	11.8	6.87	5.91	2.4	1.77	1.17
Balance	dL =	-0.183	-0.182	-0.215	-0.280	-0.367	-0.443	-0.517
Pressure	dL =	-0.148	-0.156	-0.186	-0.213	-0.263	-0.316	-0.372
Balance	dM/Ds =	0.018	0.007	0.053	0.013	0.008	0.016	0.008
Pressure	dM/Ds =	0.089	0.077	0.078	0.102	0.087	0.128	0.080

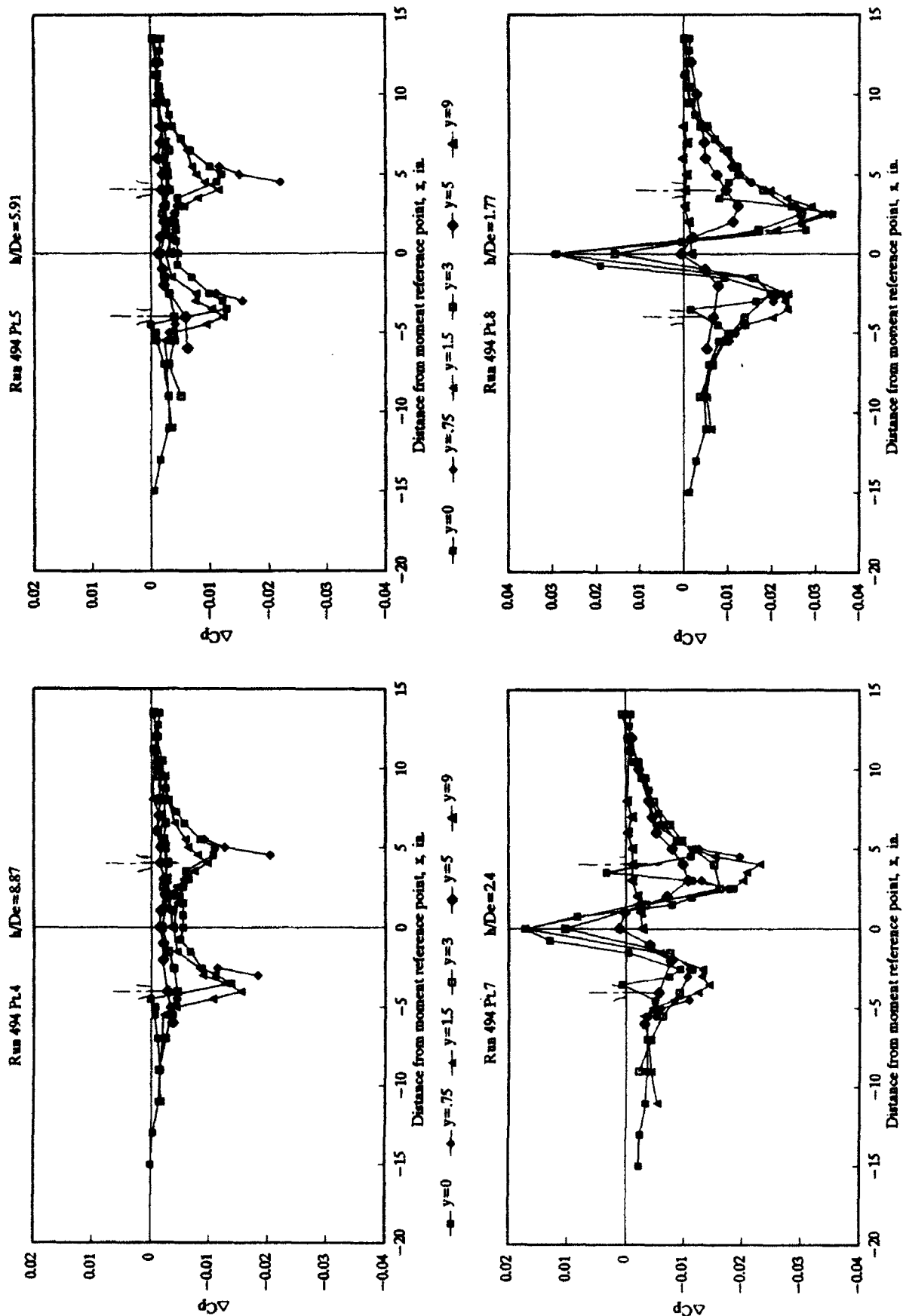


Fig. B-104 Chordwise distributions of jet induced pressure at selected heights - Configuration VII - Both Jets

NPR=2 Run 494  $Ve=.06$

TABLE B-105 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=2  
Run 495 Ve=.08

Port No.	1	2	3	4	5	Port No.	1	2	3	4	5
y	x	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	y	x	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$	$\Delta C_p$
0	-1.5	-0.0011	-0.0022	-0.0041	-0.0019	0	6.5	-0.0115	-0.0062	-0.0054	-0.0059
0	-1.3	-0.0030	-0.0038	-0.0038	-0.0031	0	8	-0.0088	-0.0041	-0.0042	-0.0043
0	-1.1	-0.0088	-0.0098	-0.0047	-0.0068	0	8.5	-0.0088	-0.0016	-0.0030	-0.0044
0	-9	-0.0142	-0.0098	-0.0048	-0.0058	0	10.5	-0.0080	-0.0032	-0.0038	-0.0038
0	-7	-0.0123	-0.0066	-0.0044	-0.0038	0	12	-0.0048	-0.0024	-0.0032	-0.0038
0	-5.5	-0.0135	-0.0032	-0.0048	-0.0031	0	13.5	-0.0038	-0.0020	-0.0031	-0.0031
0	-5	-0.0182	-0.0110	-0.0088	-0.0031	0	15	-0.0038	-0.0020	-0.0032	-0.0032
0	-4.5	-0.0124	-0.0035	-0.0032	-0.0031	0	17	-0.0150	-0.0071	-0.0056	-0.0056
0	-3.5	-0.0148	-0.0051	-0.0017	-0.0114	0	18	-0.0120	-0.0065	-0.0056	-0.0056
0	-3	-0.0318	-0.0140	-0.0080	-0.0113	0	20	-0.0113	-0.0144	-0.0098	-0.0098
0	-2.5	-0.0428	-0.0189	-0.0090	-0.0091	0	22	-0.0080	-0.0186	-0.0113	-0.0094
0	-1.5	-0.0443	-0.0234	-0.0017	-0.0088	0	25	-0.0278	-0.0136	-0.0088	-0.0088
0	-0.75	-0.0073	-0.0033	-0.0102	-0.0040	0	30	-0.0080	-0.0131	-0.0085	-0.0085
0	0	0.0078	-0.0031	-0.0171	-0.0037	0	35	-0.0030	-0.0147	-0.0040	-0.0034
0	0.75	0.0034	-0.0040	-0.0287	-0.0032	0	40	-0.0030	-0.0259	-0.0164	-0.0038
0	1.5	-0.0534	-0.0276	-0.0091	-0.0038	0	45	-0.0118	-0.0158	-0.0088	-0.0088
0	1.85	-0.0468	-0.0260	-0.0118	-0.0021	0	50	-0.0126	-0.0158	-0.0088	-0.0088
0	2.5	-0.0335	-0.0232	-0.0183	-0.0010	0	55	-0.0101	-0.0107	-0.0080	-0.0080
0	3	-0.0411	-0.0227	-0.0103	-0.0007	0	60	-0.0088	-0.0064	-0.0048	-0.0048
0	3.5	-0.0189	-0.0073	-0.0040	-0.0018	0	65	-0.0088	-0.0048	-0.0038	-0.0038
0	4.5	-0.0185	-0.0111	-0.0122	-0.0142	0	70	-0.0080	-0.0012	-0.0018	-0.0012
0	5	-0.0220	-0.0129	-0.0128	-0.0181	0	75	-0.0085	-0.0004	-0.0003	-0.0003
0	5.5	-0.0178	-0.0124	-0.0085	-0.0121	0	80	-0.0019	-0.0002	-0.0004	-0.0004
0	6.5	-0.0107	-0.0107	-0.0083	-0.0080	0	85	-0.0019	-0.0002	-0.0004	-0.0004
0	7.25	-0.0085	-0.0081	-0.0088	-0.0087	0	90	-0.0085	-0.0070	-0.0068	-0.0068
0	8	-0.0078	-0.0048	-0.0044	-0.0047	0	95	-0.0085	-0.0065	-0.0068	-0.0068
0	8.75	-0.0078	-0.0028	-0.0028	-0.0040	0	100	-0.0085	-0.0048	-0.0048	-0.0048
0	9.5	-0.0078	-0.0019	-0.0030	-0.0030	0	105	-0.0085	-0.0032	-0.0032	-0.0032
0	10.5	-0.0068	-0.0007	-0.0012	-0.0014	0	110	-0.0085	-0.0010	-0.0010	-0.0010
0	11.25	-0.0061	-0.0003	-0.0004	-0.0003	0	115	-0.0085	-0.0003	-0.0003	-0.0003
0	12	-0.0061	-0.0010	-0.0008	-0.0013	0	120	-0.0085	-0.0003	-0.0003	-0.0003
0	12.75	-0.0040	-0.0012	-0.0007	-0.0013	0	125	-0.0085	-0.0003	-0.0003	-0.0003
0	13.5	-0.0037	-0.0015	-0.0008	-0.0016	0	130	-0.0085	-0.0003	-0.0003	-0.0003
0	14.5	-0.0037	-0.0015	-0.0008	-0.0016	0	135	-0.0085	-0.0003	-0.0003	-0.0003
0	15.5	-0.0037	-0.0015	-0.0008	-0.0016	0	140	-0.0085	-0.0003	-0.0003	-0.0003
0	16.5	-0.0037	-0.0015	-0.0008	-0.0016	0	145	-0.0085	-0.0003	-0.0003	-0.0003
0	17.5	-0.0037	-0.0015	-0.0008	-0.0016	0	150	-0.0085	-0.0003	-0.0003	-0.0003
0	18.5	-0.0037	-0.0015	-0.0008	-0.0016	0	155	-0.0085	-0.0003	-0.0003	-0.0003
0	19.5	-0.0037	-0.0015	-0.0008	-0.0016	0	160	-0.0085	-0.0003	-0.0003	-0.0003
0	20.5	-0.0037	-0.0015	-0.0008	-0.0016	0	165	-0.0085	-0.0003	-0.0003	-0.0003
0	21.5	-0.0037	-0.0015	-0.0008	-0.0016	0	170	-0.0085	-0.0003	-0.0003	-0.0003
0	22.5	-0.0037	-0.0015	-0.0008	-0.0016	0	175	-0.0085	-0.0003	-0.0003	-0.0003
0	23.5	-0.0037	-0.0015	-0.0008	-0.0016	0	180	-0.0085	-0.0003	-0.0003	-0.0003
0	24.5	-0.0037	-0.0015	-0.0008	-0.0016	0	185	-0.0085	-0.0003	-0.0003	-0.0003
0	25.5	-0.0037	-0.0015	-0.0008	-0.0016	0	190	-0.0085	-0.0003	-0.0003	-0.0003
0	26.5	-0.0037	-0.0015	-0.0008	-0.0016	0	195	-0.0085	-0.0003	-0.0003	-0.0003
0	27.5	-0.0037	-0.0015	-0.0008	-0.0016	0	200	-0.0085	-0.0003	-0.0003	-0.0003
0	28.5	-0.0037	-0.0015	-0.0008	-0.0016	0	205	-0.0085	-0.0003	-0.0003	-0.0003
0	29.5	-0.0037	-0.0015	-0.0008	-0.0016	0	210	-0.0085	-0.0003	-0.0003	-0.0003
0	30.5	-0.0037	-0.0015	-0.0008	-0.0016	0	215	-0.0085	-0.0003	-0.0003	-0.0003
0	31.5	-0.0037	-0.0015	-0.0008	-0.0016	0	220	-0.0085	-0.0003	-0.0003	-0.0003
0	32.5	-0.0037	-0.0015	-0.0008	-0.0016	0	225	-0.0085	-0.0003	-0.0003	-0.0003
0	33.5	-0.0037	-0.0015	-0.0008	-0.0016	0	230	-0.0085	-0.0003	-0.0003	-0.0003
0	34.5	-0.0037	-0.0015	-0.0008	-0.0016	0	235	-0.0085	-0.0003	-0.0003	-0.0003
0	35.5	-0.0037	-0.0015	-0.0008	-0.0016	0	240	-0.0085	-0.0003	-0.0003	-0.0003
0	36.5	-0.0037	-0.0015	-0.0008	-0.0016	0	245	-0.0085	-0.0003	-0.0003	-0.0003
0	37.5	-0.0037	-0.0015	-0.0008	-0.0016	0	250	-0.0085	-0.0003	-0.0003	-0.0003
0	38.5	-0.0037	-0.0015	-0.0008	-0.0016	0	255	-0.0085	-0.0003	-0.0003	-0.0003
0	39.5	-0.0037	-0.0015	-0.0008	-0.0016	0	260	-0.0085	-0.0003	-0.0003	-0.0003
0	40.5	-0.0037	-0.0015	-0.0008	-0.0016	0	265	-0.0085	-0.0003	-0.0003	-0.0003
0	41.5	-0.0037	-0.0015	-0.0008	-0.0016	0	270	-0.0085	-0.0003	-0.0003	-0.0003
0	42.5	-0.0037	-0.0015	-0.0008	-0.0016	0	275	-0.0085	-0.0003	-0.0003	-0.0003
0	43.5	-0.0037	-0.0015	-0.0008	-0.0016	0	280	-0.0085	-0.0003	-0.0003	-0.0003
0	44.5	-0.0037	-0.0015	-0.0008	-0.0016	0	285	-0.0085	-0.0003	-0.0003	-0.0003
0	45.5	-0.0037	-0.0015	-0.0008	-0.0016	0	290	-0.0085	-0.0003	-0.0003	-0.0003
0	46.5	-0.0037	-0.0015	-0.0008	-0.0016	0	295	-0.0085	-0.0003	-0.0003	-0.0003
0	47.5	-0.0037	-0.0015	-0.0008	-0.0016	0	300	-0.0085	-0.0003	-0.0003	-0.0003
0	48.5	-0.0037	-0.0015	-0.0008	-0.0016	0	305	-0.0085	-0.0003	-0.0003	-0.0003
0	49.5	-0.0037	-0.0015	-0.0008	-0.0016	0	310	-0.0085	-0.0003	-0.0003	-0.0003
0	50.5	-0.0037	-0.0015	-0.0008	-0.0016	0	315	-0.0085	-0.0003	-0.0003	-0.0003
0	51.5	-0.0037	-0.0015	-0.0008	-0.0016	0	320	-0.0085	-0.0003	-0.0003	-0.0003
0	52.5	-0.0037	-0.0015	-0.0008	-0.0016	0	325	-0.0085	-0.0003	-0.0003	-0.0003
0	53.5	-0.0037	-0.0015	-0.0008	-0.0016	0	330	-0.0085	-0.0003	-0.0003	-0.0003
0	54.5	-0.0037	-0.0015	-0.0008	-0.0016	0	335	-0.0085	-0.0003	-0.0003	-0.0003
0	55.5	-0.0037	-0.0015	-0.0008	-0.0016	0	340	-0.0085	-0.0003	-0.0003	-0.0003
0	56.5	-0.0037	-0.0015	-0.0008	-0.0016	0	345	-0.0085	-0.0003	-0.0003	-0.0003
0	57.5	-0.0037	-0.0015	-0.0008	-0.0016	0	350	-0.0085	-0.0003	-0.0003	-0.0003
0	58.5	-0.0037	-0.0015	-0.0008	-0.0016	0	355	-0.0085	-0.0003	-0.0003	-0.0003
0	59.5	-0.0037	-0.0015	-0.0008	-0.0016	0	360	-0.0085	-0.0003	-0.0003	-0.0003
0	60.5	-0.0037	-0.0015	-0.0008	-0.0016	0	365	-0.0085	-0.0003	-0.0003	-0.0003
0	61.5	-0.0037	-0.0015	-0.0008	-0.0016	0	370	-0.0085	-0.0003	-0.0003	-0.0003
0	62.5	-0.0037	-0.0015	-0.0008	-0.0016	0	375	-0.0085	-0.0003	-0.0003	-0.0003
0	63.5	-0.0037	-0.0015	-0.0008	-0.0016	0	380	-0.0085	-0.0003	-0.0003	-0.0003
0	64.5	-0.0037	-0.0015	-0.0008	-0.0016	0	385	-0.0085	-0.0003	-0.0003	-0.0003
0	65.5	-0.0037	-0.0015	-0.0008	-0.0016	0	390	-0.0085	-0.0003	-0.0003	-0.0003
0	66.5	-0.0037	-0.0015	-0.0008	-0.0016	0	395	-0.0085	-0.0003	-0.0003	-0.0003
0	67.5	-0.0037	-0.0015	-0.0008	-0.0016	0	400	-0.0085	-0.0003	-0.0003	-0.0003
0	68.5	-0.0037	-0.0015	-0.0008	-0.0016	0	405	-0.0085	-0.0003	-0.0003	-0.0003
0	69.5	-0.0037	-0.0015	-0.0008	-0.0016	0	410	-0.0085	-0.0003	-0.0003	-0.0003
0	70.5	-0.0037	-0.0015	-0.0008	-0.0016	0	415	-0.0085	-0.0003	-0.0003	-0.0003
0	71.5	-0.0037	-0.0015	-0.0008	-0.0016	0	420	-0.0085	-0.0003	-0.0003	-0.0003
0	72.5	-0.0037	-0.0015	-0.0008	-0.0016	0	425	-0.0085	-0.0003	-0.0003	-0.0003
0	73.5	-0.0037	-0.0015	-0.0008	-0.0016	0	430	-0.0085	-0.0003	-0.0003	-0.0003
0	74.5	-0.0037	-0.0015	-0.0008	-0.0016	0	435	-0.0085	-0.0003	-0.0003	-0.0003
0	75.5	-0.0037	-0.0015	-0.0008	-0.0016	0	440	-0.0085	-0.0003	-0.0003	-0.0003
0	76.5	-0.0037	-0.0015	-0.0008	-0.0016	0	445	-0.0085	-0.0003	-0.0003	-0.0003
0	77.5	-0.0037	-0.0015	-0.0008	-0.0016	0	450	-0.0085	-0.0003	-0.0003	-0.0003
0	78.5	-0.0037	-0.0015	-0.0008	-0.0016	0	455	-0.0085	-0.0003	-0.0003	-0.0003
0	79.5	-0.0037	-0.0015	-0.0008	-0.0016	0	460	-0.0085	-0.0003	-0.0003	-0.0003
0	80.5	-0.0037	-0.0015	-0.0008	-0.0						

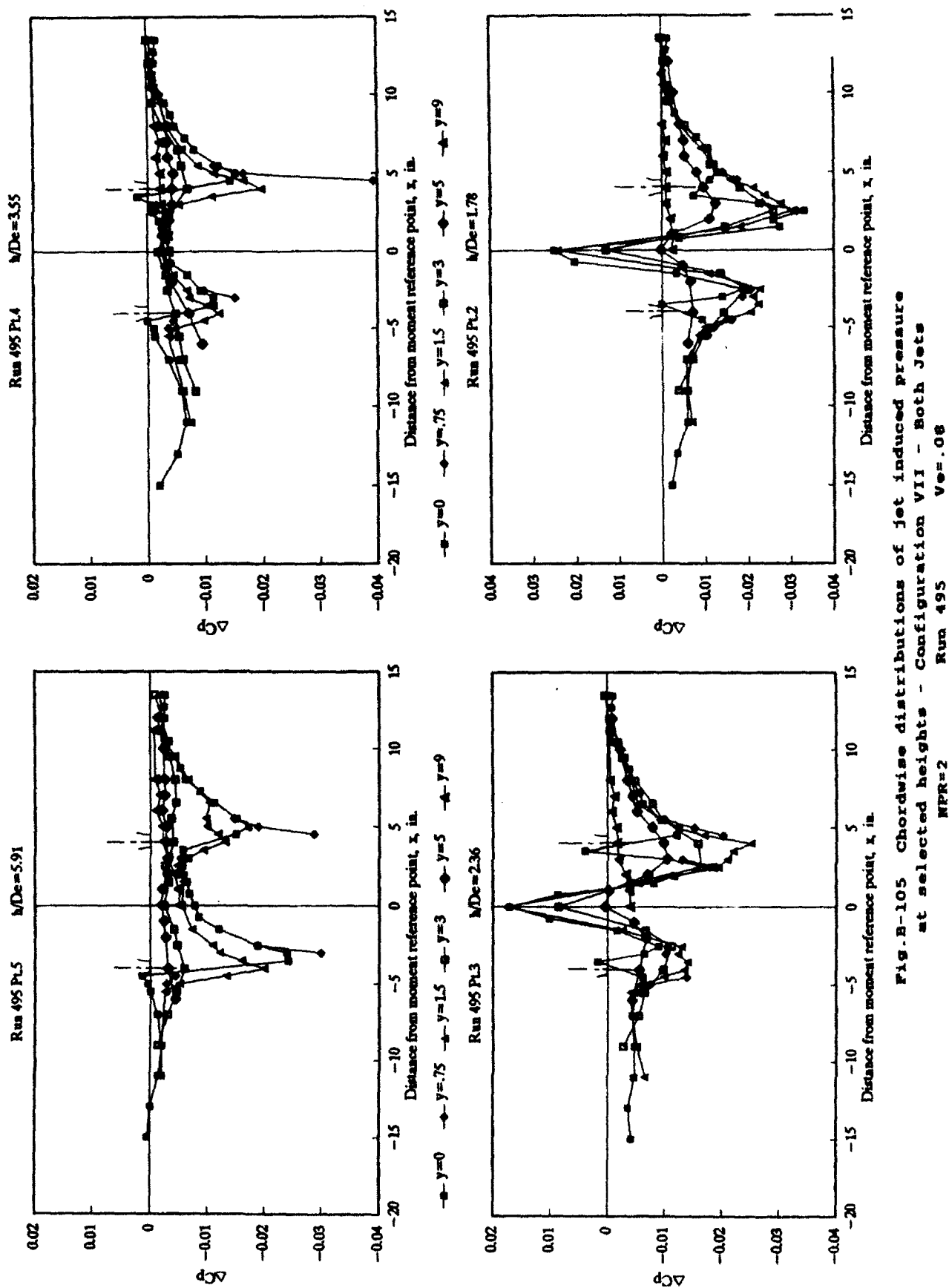


Fig.B-105 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
Run 495  $Ve=.08$   $MFR=2$

**TABLE B-106 JET INDUCED PRESSURE INCREMENTS**  
**Configuration VII - Both Jets - NPR=2**

Point NOs = x	y	5			6			7			8			9			10			11			12		
		17.78	11.67	Δcp	17.78	11.67	Δcp	17.78	11.67	Δcp	17.78	11.67	Δcp	17.78	11.67	Δcp	17.78	11.67	Δcp	17.78	11.67	Δcp	17.78	11.67	Δcp
0	-15	0.0004	0.0008	0.0011	0.0015	0.0040	0.0015	0.0011	0.0015	0.0015	0.0040	0.0015	0.0011	0.0015	0.0015	0.0040	0.0015	0.0011	0.0015	0.0015	0.0040	0.0015	0.0011	0.0015	
0	-13	0.0008	0.0012	0.0016	0.0019	0.0044	0.0019	0.0016	0.0019	0.0019	0.0044	0.0019	0.0016	0.0019	0.0019	0.0044	0.0019	0.0016	0.0019	0.0019	0.0044	0.0019	0.0016	0.0019	
0	-11	0.0016	0.0020	0.0024	0.0028	0.0053	0.0028	0.0024	0.0028	0.0028	0.0053	0.0028	0.0024	0.0028	0.0028	0.0053	0.0028	0.0024	0.0028	0.0028	0.0053	0.0028	0.0024	0.0028	
0	-9	0.0024	0.0028	0.0032	0.0036	0.0061	0.0036	0.0032	0.0036	0.0036	0.0061	0.0036	0.0032	0.0036	0.0036	0.0061	0.0036	0.0032	0.0036	0.0036	0.0061	0.0036	0.0032	0.0036	
0	-7	0.0032	0.0036	0.0040	0.0044	0.0069	0.0044	0.0040	0.0044	0.0044	0.0069	0.0044	0.0040	0.0044	0.0044	0.0069	0.0044	0.0040	0.0044	0.0044	0.0069	0.0044	0.0040	0.0044	
0	-5	0.0040	0.0044	0.0048	0.0052	0.0077	0.0052	0.0048	0.0052	0.0052	0.0077	0.0052	0.0048	0.0052	0.0052	0.0077	0.0052	0.0048	0.0052	0.0052	0.0077	0.0052	0.0048	0.0052	
0	-3	0.0048	0.0052	0.0056	0.0060	0.0085	0.0060	0.0056	0.0060	0.0060	0.0085	0.0060	0.0056	0.0060	0.0060	0.0085	0.0060	0.0056	0.0060	0.0060	0.0085	0.0060	0.0056	0.0060	
0	-1	0.0056	0.0060	0.0064	0.0068	0.0093	0.0068	0.0064	0.0068	0.0068	0.0093	0.0068	0.0064	0.0068	0.0068	0.0093	0.0068	0.0064	0.0068	0.0068	0.0093	0.0068	0.0064	0.0068	
0	1	0.0064	0.0068	0.0072	0.0076	0.0101	0.0076	0.0072	0.0076	0.0076	0.0101	0.0076	0.0072	0.0076	0.0076	0.0101	0.0076	0.0072	0.0076	0.0076	0.0101	0.0076	0.0072	0.0076	
0	3	0.0072	0.0076	0.0080	0.0084	0.0109	0.0084	0.0080	0.0084	0.0084	0.0109	0.0084	0.0080	0.0084	0.0084	0.0109	0.0084	0.0080	0.0084	0.0084	0.0109	0.0084	0.0080	0.0084	
0	5	0.0080	0.0084	0.0088	0.0092	0.0117	0.0092	0.0088	0.0092	0.0092	0.0117	0.0092	0.0088	0.0092	0.0092	0.0117	0.0092	0.0088	0.0092	0.0092	0.0117	0.0092	0.0088	0.0092	
0	7	0.0088	0.0092	0.0096	0.0100	0.0125	0.0100	0.0096	0.0100	0.0100	0.0125	0.0100	0.0096	0.0100	0.0100	0.0125	0.0100	0.0096	0.0100	0.0100	0.0125	0.0100	0.0096	0.0100	
0	9	0.0096	0.0100	0.0104	0.0108	0.0133	0.0108	0.0104	0.0108	0.0108	0.0133	0.0108	0.0104	0.0108	0.0108	0.0133	0.0108	0.0104	0.0108	0.0108	0.0133	0.0108	0.0104	0.0108	
0	11	0.0104	0.0108	0.0112	0.0116	0.0141	0.0116	0.0112	0.0116	0.0116	0.0141	0.0116	0.0112	0.0116	0.0116	0.0141	0.0116	0.0112	0.0116	0.0116	0.0141	0.0116	0.0112	0.0116	
0	13	0.0112	0.0116	0.0120	0.0124	0.0149	0.0124	0.0120	0.0124	0.0124	0.0149	0.0124	0.0120	0.0124	0.0124	0.0149	0.0124	0.0120	0.0124	0.0124	0.0149	0.0124	0.0120	0.0124	
0	15	0.0120	0.0124	0.0128	0.0132	0.0157	0.0132	0.0128	0.0132	0.0132	0.0157	0.0132	0.0128	0.0132	0.0132	0.0157	0.0132	0.0128	0.0132	0.0132	0.0157	0.0132	0.0128	0.0132	
0	17	0.0128	0.0132	0.0136	0.0140	0.0165	0.0140	0.0136	0.0140	0.0140	0.0165	0.0140	0.0136	0.0140	0.0140	0.0165	0.0140	0.0136	0.0140	0.0140	0.0165	0.0140	0.0136	0.0140	
0	19	0.0136	0.0140	0.0144	0.0148	0.0173	0.0148	0.0144	0.0148	0.0148	0.0173	0.0148	0.0144	0.0148	0.0148	0.0173	0.0148	0.0144	0.0148	0.0148	0.0173	0.0148	0.0144	0.0148	
0	21	0.0144	0.0148	0.0152	0.0156	0.0181	0.0156	0.0152	0.0156	0.0156	0.0181	0.0156	0.0152	0.0156	0.0156	0.0181	0.0156	0.0152	0.0156	0.0156	0.0181	0.0156	0.0152	0.0156	
0	23	0.0152	0.0156	0.0160	0.0164	0.0189	0.0164	0.0160	0.0164	0.0164	0.0189	0.0164	0.0160	0.0164	0.0164	0.0189	0.0164	0.0160	0.0164	0.0164	0.0189	0.0164	0.0160	0.0164	
0	25	0.0160	0.0164	0.0168	0.0172	0.0197	0.0172	0.0168	0.0172	0.0172	0.0197	0.0172	0.0168	0.0172	0.0172	0.0197	0.0172	0.0168	0.0172	0.0172	0.0197	0.0172	0.0168	0.0172	
0	27	0.0168	0.0172	0.0176	0.0180	0.0205	0.0180	0.0176	0.0180	0.0180	0.0205	0.0180	0.0176	0.0180	0.0180	0.0205	0.0180	0.0176	0.0180	0.0180	0.0205	0.0180	0.0176	0.0180	
0	29	0.0176	0.0180	0.0184	0.0188	0.0213	0.0188	0.0184	0.0188	0.0188	0.0213	0.0188	0.0184	0.0188	0.0188	0.0213	0.0188	0.0184	0.0188	0.0188	0.0213	0.0188	0.0184	0.0188	
0	31	0.0184	0.0188	0.0192	0.0196	0.0221	0.0196	0.0192	0.0196	0.0196	0.0221	0.0196	0.0192	0.0196	0.0196	0.0221	0.0196	0.0192	0.0196	0.0196	0.0221	0.0196	0.0192	0.0196	
0	33	0.0192	0.0196	0.0200	0.0204	0.0229	0.0204	0.0200	0.0204	0.0204	0.0229	0.0204	0.0200	0.0204	0.0204	0.0229	0.0204	0.0200	0.0204	0.0204	0.0229	0.0204	0.0200	0.0204	
0	35	0.0200	0.0204	0.0208	0.0212	0.0237	0.0212	0.0208	0.0212	0.0212	0.0237	0.0212	0.0208	0.0212	0.0212	0.0237	0.0212	0.0208	0.0212	0.0212	0.0237	0.0212	0.0208	0.0212	
0	37	0.0208	0.0212	0.0216	0.0220	0.0245	0.0220	0.0216	0.0220	0.0220	0.0245	0.0220	0.0216	0.0220	0.0220	0.0245	0.0220	0.0216	0.0220	0.0220	0.0245	0.0220	0.0216	0.0220	
0	39	0.0216	0.0220	0.0224	0.0228	0.0253	0.0228	0.0224	0.0228	0.0228	0.0253	0.0228	0.0224	0.0228	0.0228	0.0253	0.0228	0.0224	0.0228	0.0228	0.0253	0.0228	0.0224	0.0228	
0	41	0.0224	0.0228	0.0232	0.0236	0.0261	0.0236	0.0232	0.0236	0.0236	0.0261	0.0236	0.0232	0.0236	0.0236	0.0261	0.0236	0.0232	0.0236	0.0236	0.0261	0.0236	0.0232	0.0236	
0	43	0.0232	0.0236	0.0240	0.0244	0.0269	0.0244	0.0240	0.0244	0.0244	0.0269	0.0244	0.0240	0.0244	0.0244	0.0269	0.0244	0.0240	0.0244	0.0244	0.0269	0.0244	0.0240	0.0244	
0	45	0.0240	0.0244	0.0248	0.0252	0.0277	0.0252	0.0248	0.0252	0.0252	0.0277	0.0252	0.0248	0.0252	0.0252	0.0277	0.0252	0.0248	0.0252	0.0252	0.0277	0.0252	0.0248	0.0252	
0	47	0.0248	0.0252	0.0256	0.0260	0.0285	0.0260	0.0256	0.0260	0.0260	0.0285	0.0260	0.0256	0.0260	0.0260	0.0285	0.0260	0.0256	0.0260	0.0260	0.0285	0.0260	0.0256	0.0260	
0	49	0.0256	0.0260	0.0264	0.0268	0.0293	0.0268	0.0264	0.0268	0.0268	0.0293	0.0268	0.0264	0.0268	0.0268	0.0293	0.0268	0.0264	0.0268	0.0268	0.0293	0.0268	0.0264	0.0268	
0	51	0.0264	0.0268	0.0272	0.0276	0.0301	0.0276	0.0272	0.0276	0.0276	0.0301	0.0276	0.0272	0.0276	0.0276	0.0301	0.0276	0.0272	0.0276	0.0276	0.0301	0.0276	0.0272	0.0276	
0	53	0.0272	0.0276	0.0280	0.0284	0.0309	0.0284	0.0280	0.0284	0.0284	0.0309	0.0284	0.0280	0.0284	0.0284	0.0309	0.0284	0.0280	0.0284	0.0284	0.0309	0.0284	0.0280	0.0284	
0	55	0.0280	0.0284	0.0288	0.0292	0.0317	0.0292	0.0288	0.0292	0.0292	0.0317	0.0292	0.0288	0.0292	0.0292	0.0317	0.0292	0.0288	0.0292	0.0292	0.0317	0.0292	0.0288	0.0292	
0	57	0.0288	0.0292	0.0296	0.0300	0.0325	0.0300	0.0296	0.0300	0.0300	0.0325	0.0300	0.0296	0.0300	0.0300	0.0325	0.0300	0.0296	0.0300	0.0300	0.0325	0.0300	0.0296	0.0300	
0	59	0.0296	0.0300	0.0304	0.0308	0.0333	0.0308	0.0304	0.0308	0.0308	0.0333	0.0308	0.0304	0.0308	0.0308	0.0333	0.0308	0.0304	0.0308	0.0308	0.0333	0.0308	0.0304	0.0308	
0	61	0.0304	0.0308	0.0312	0.0316	0.0341	0.0316	0.0312	0.0316	0.0316	0.0341	0.0316	0.0312	0.0316	0.0316	0.0341	0.0316	0.0312	0.0316	0.0316	0.0341	0.0316	0.0312	0.0316	
0	63	0.0312	0.0316	0.0320	0.0324	0.0349	0.0324	0.0320	0.0324	0.0324	0.0349	0.0324	0.0320	0.0324	0.0324	0.0349	0.0324	0.0320	0.0324	0.0324	0.0349	0.0324	0.0320	0.0324	
0	65	0.0320	0.0324	0.0328	0.0332	0.0357	0.0332	0.0328	0.0332	0.0332	0.0357	0.0332	0.0328	0.0332	0.0332	0.0357	0.0332	0.0328	0.0332	0.0332	0.0357	0.0332	0.0328	0.0332	
0	67	0.0328	0.0332	0.0336	0.0340	0.0365	0.0340	0.0336	0.0340	0.0340	0.0365	0.0340	0.0336	0.0340	0.0340	0.0365	0.0340	0.0336	0.0340	0.0340	0.0365	0.0340	0.0336	0.0340	
0	69	0.0336	0.0340	0.0344	0.0348	0.0373	0.0348	0.0344	0.0348	0.0348	0.0373	0.0348	0.0344	0.0348	0.0348	0.0373	0.0348	0.0344	0.0348	0.0348	0.0373	0.0348	0.0344	0.0348	
0	71	0.0344	0.0348	0.0352	0.0356	0.0381	0.0356	0.0352	0.0356	0.0356	0.0381	0.0356	0.0352	0.0356	0.0356	0.0381	0.0356	0.0352	0.0356	0.0356	0.0381	0.0356	0.0352	0.0356	
0	73	0.0352	0.0356	0.0360	0.0364	0.0389	0.0364	0.0360	0.0364	0.0364	0.0389	0.0364	0.0360	0.0364	0.0364	0.0389	0.0364</								

$\beta_{\text{dense}}$	$\text{NDe} =$	17.76
$\text{Pressure}$	$dJ =$	-0.428
$\beta_{\text{dense}}$	$dJ =$	-0.472
$\beta_{\text{TD}}$	$dA/\text{TD} =$	0.780
$\text{Pressure}$	$dA/\text{TD} =$	0.857

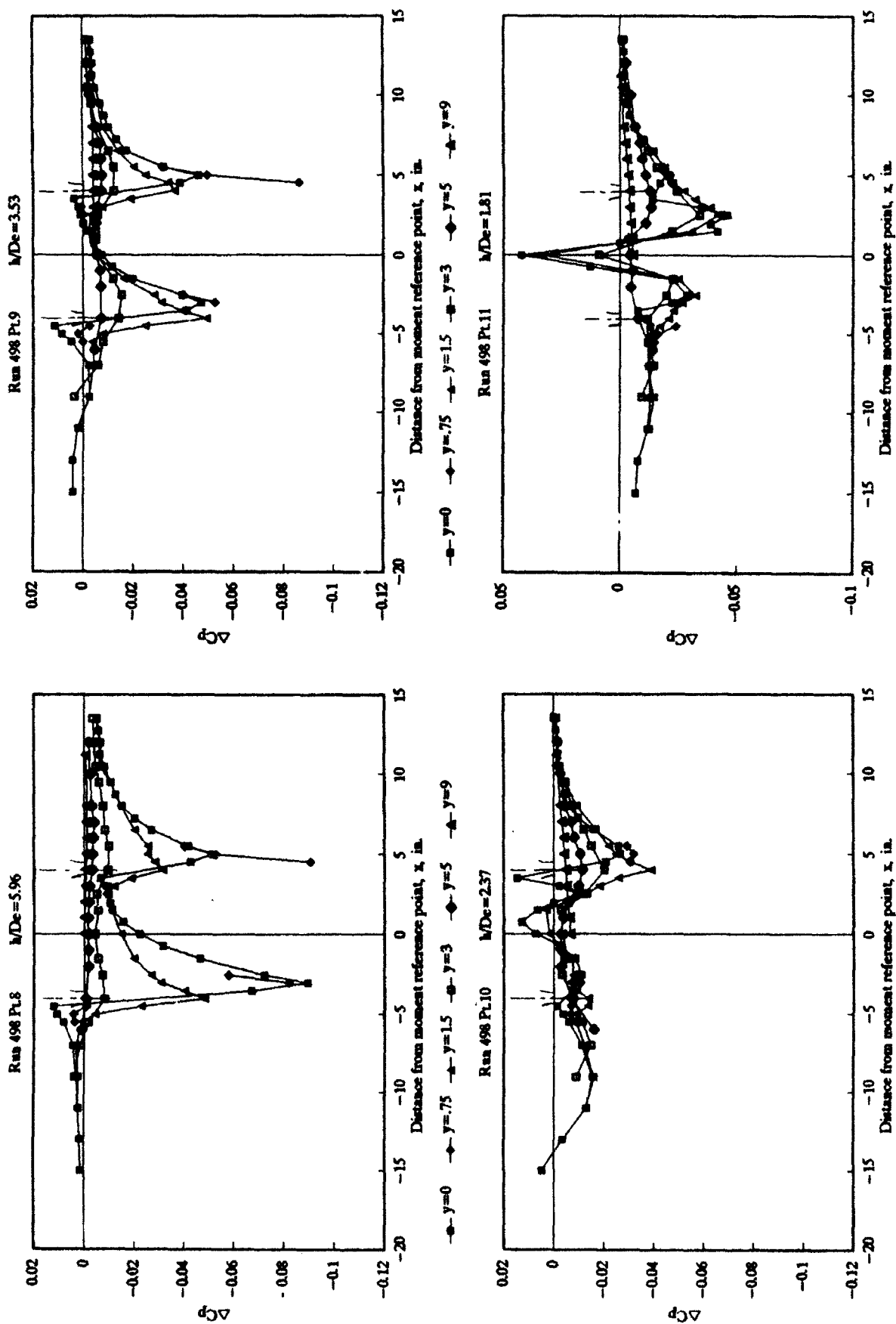


Fig.B-106 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets

NPR-2 Run 498 Ver.15





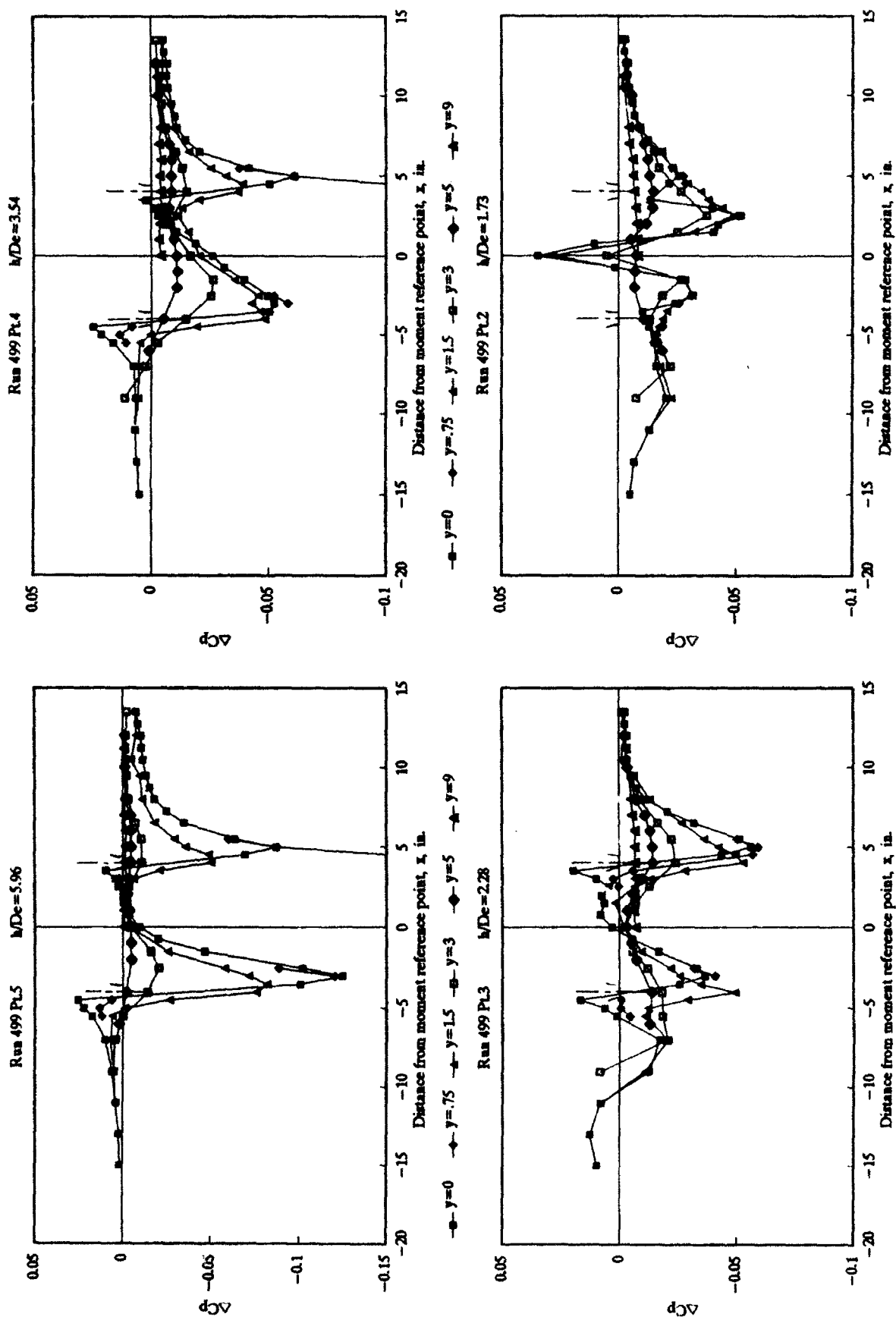


Fig.B-107 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
NPR=2 Run 499  $Ve=.2$



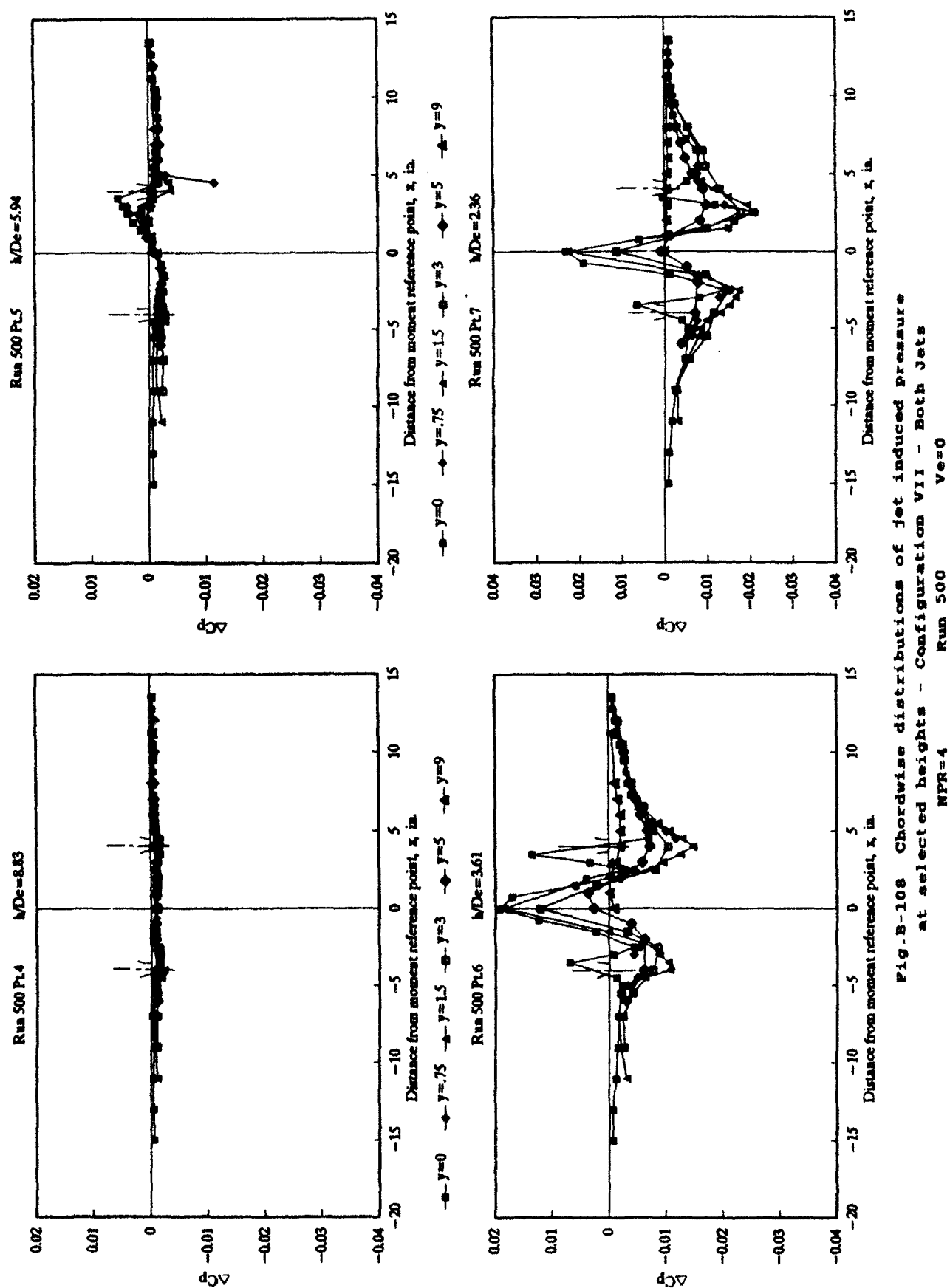


Fig. B-108 Chordwise distributions of jet induced pressure at selected heights - Configuration VII - Both Jets

NPR=4 Run 500  $Ve=0$

TABLE B-109 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=4  
Run 501  
Ve=0.2

Point No =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary

Point No 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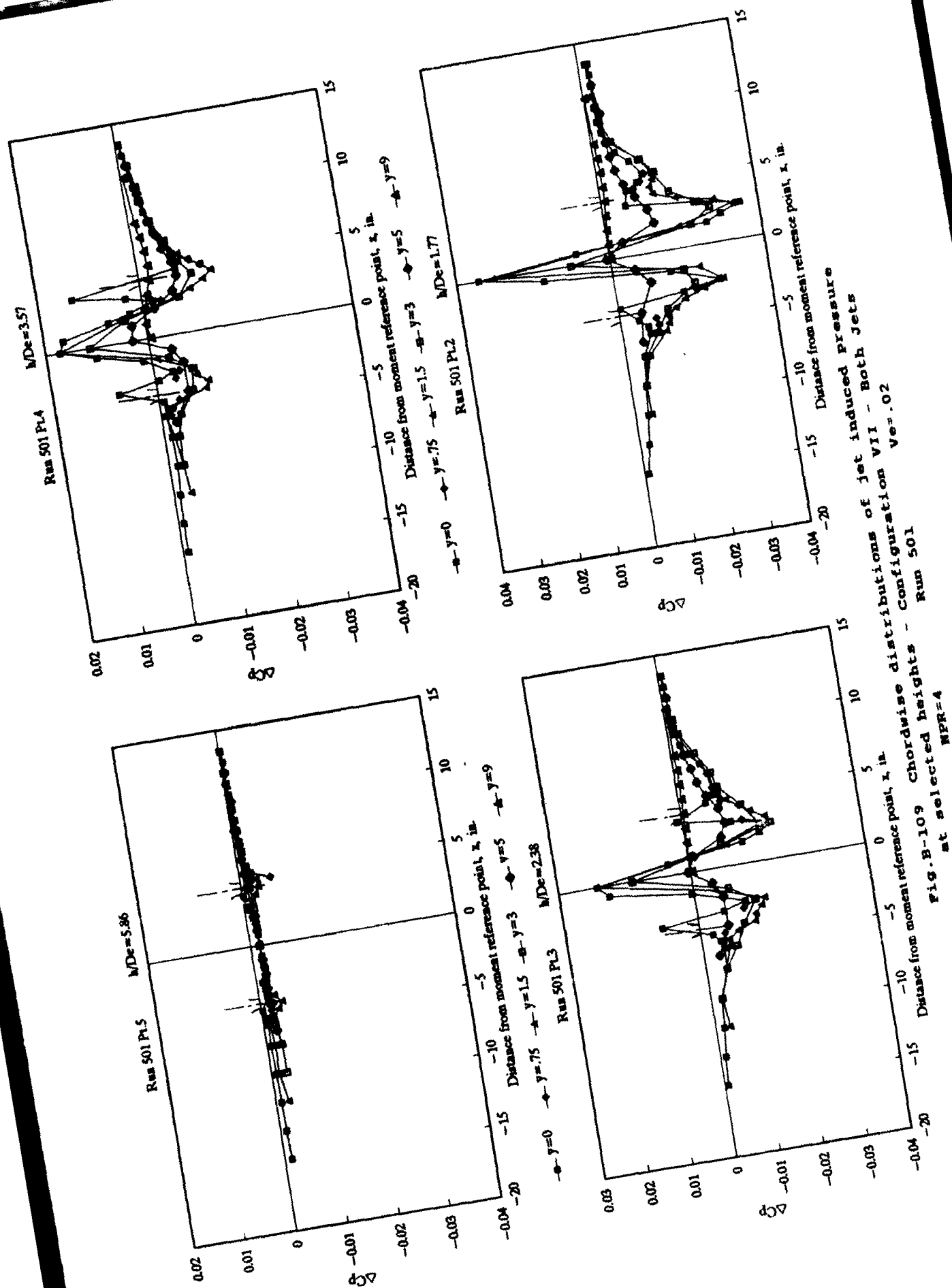


TABLE B-110 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=4  
Run 502  $Ve=.04$

[illegible]

### Force and Moment Equations

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[illegible]

0.07

Velocity  $dV$  at

$\Delta V/D_0 = -0.001$

Pressure diffD = -0.01

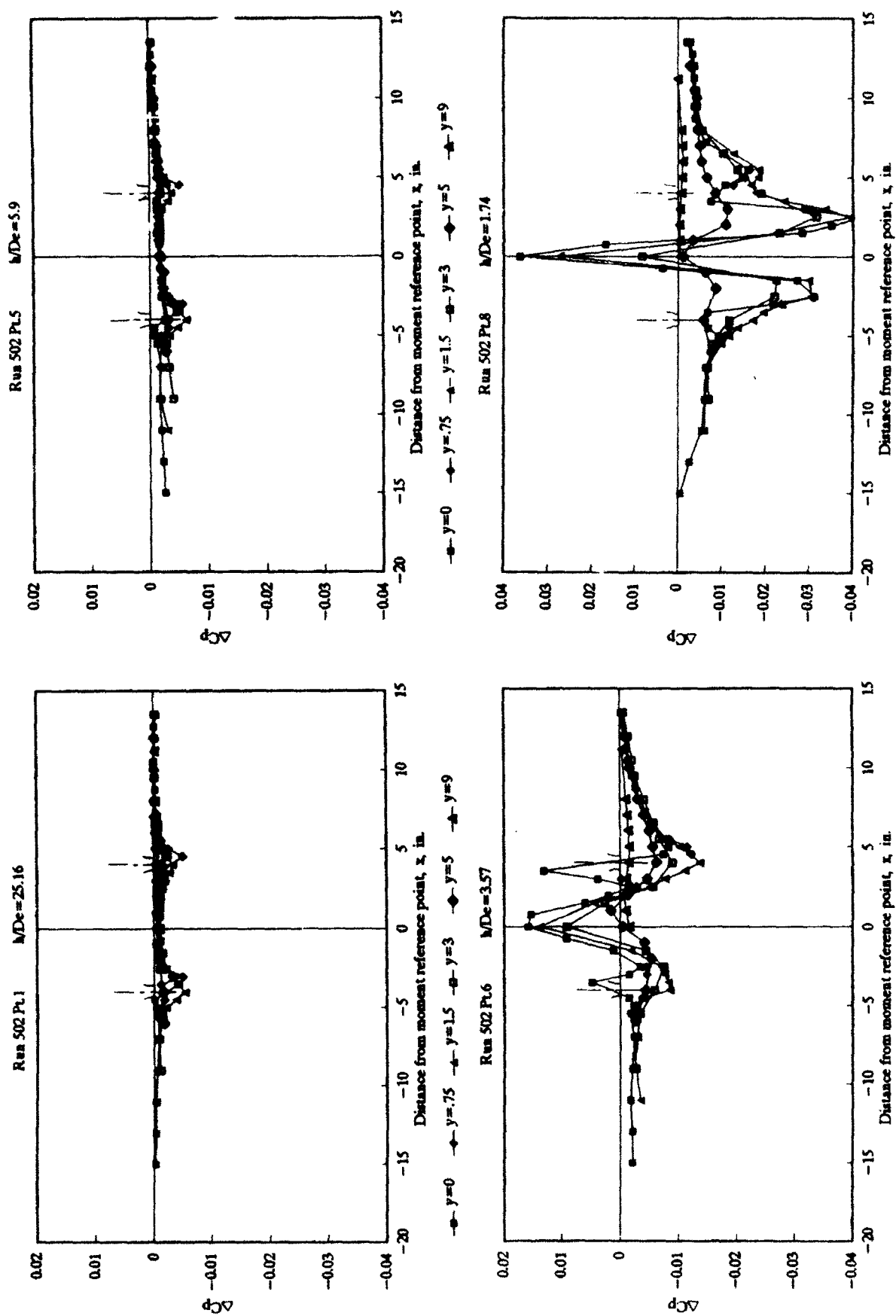


Fig. B-110 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
NPR=4 Run 502  $Ve=.04$

Run 503

### Force and Moment Summary

Balance	$\text{NO}_2 =$	1.1
Pressure	$dT =$	-1.82
Balance	$dT =$	-1.32
Pressure	$d\text{NTD} =$	0.37
Pressure	$d\text{NTD} =$	0.17



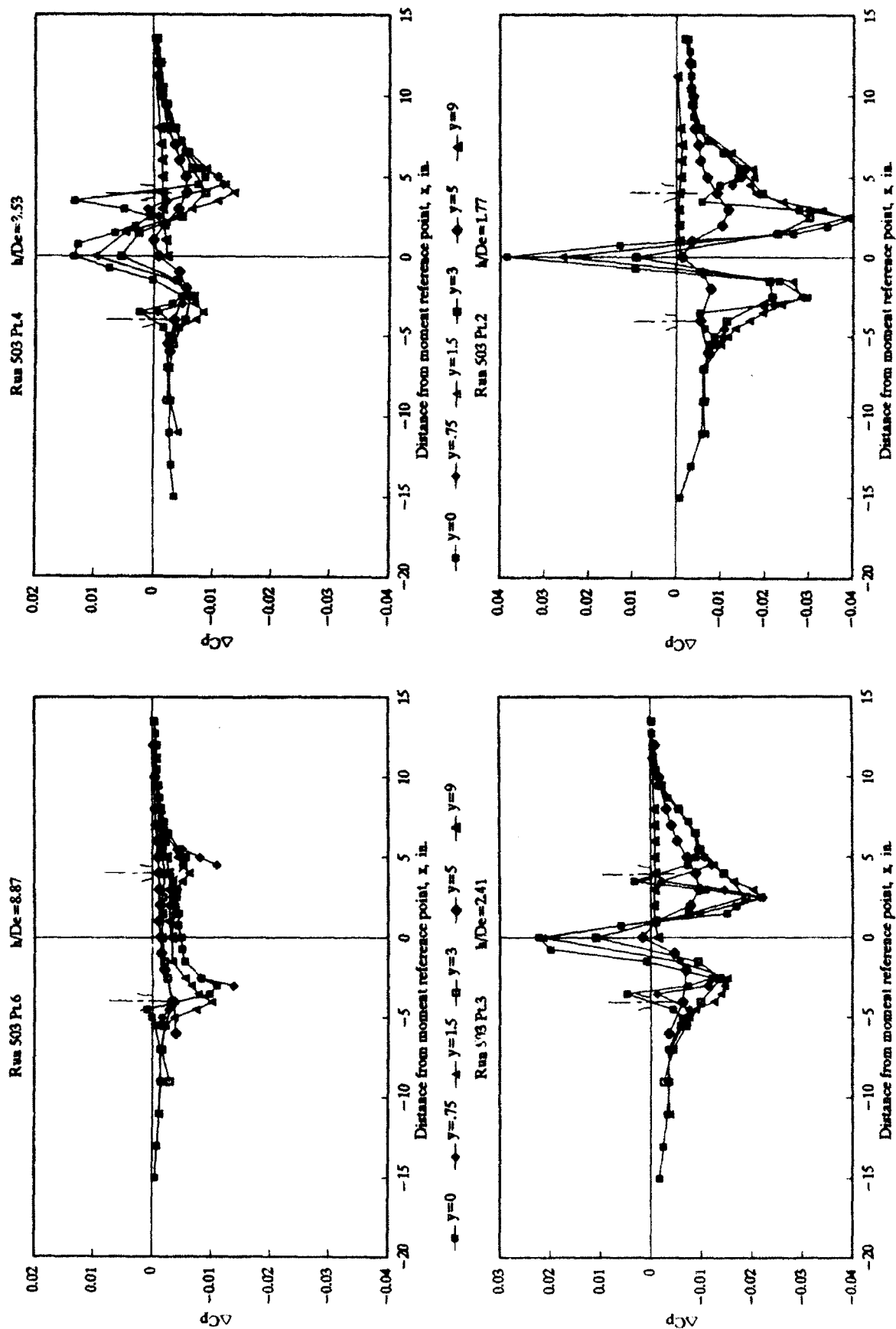


Fig. B-111 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
NPR=4 Run 500 3  $Ve=.06$



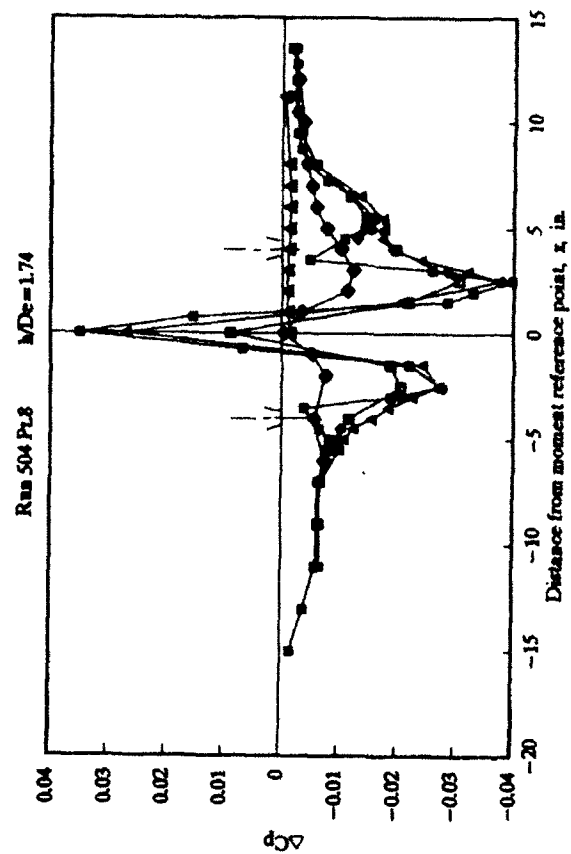
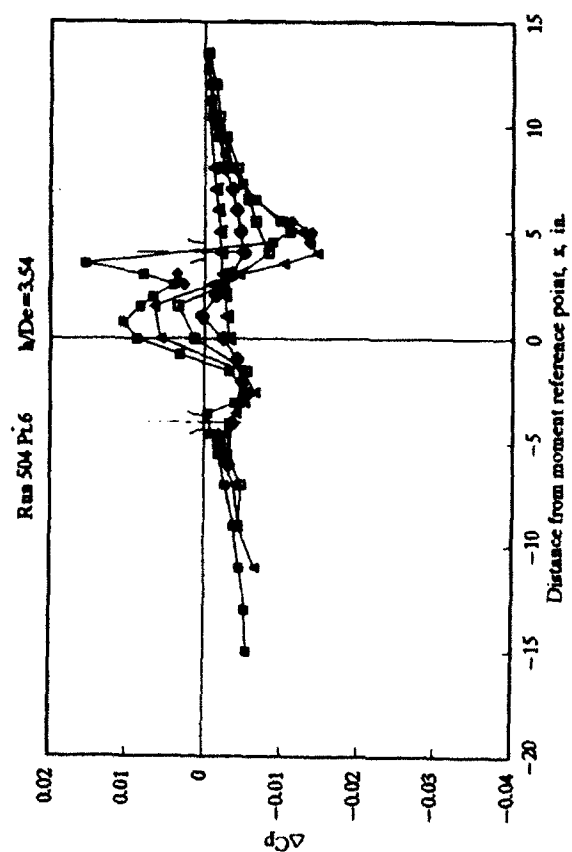
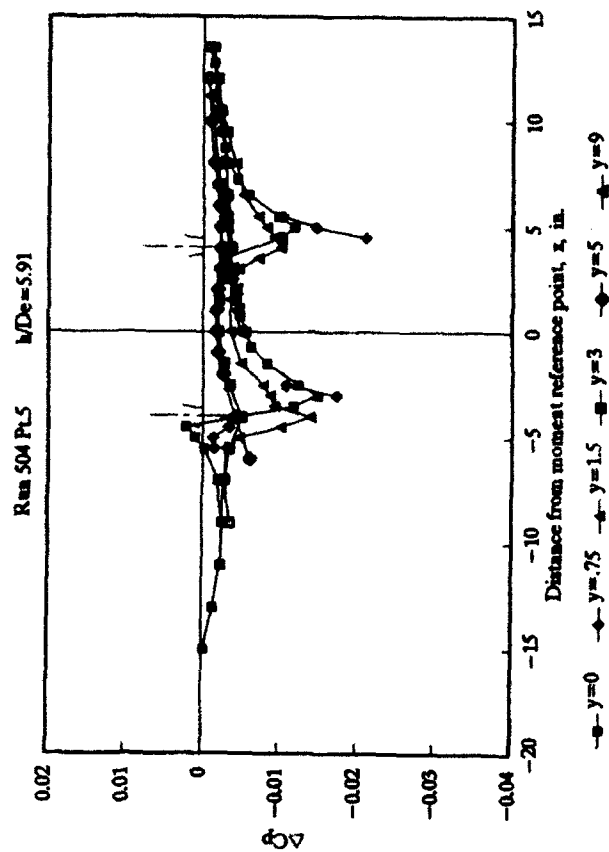
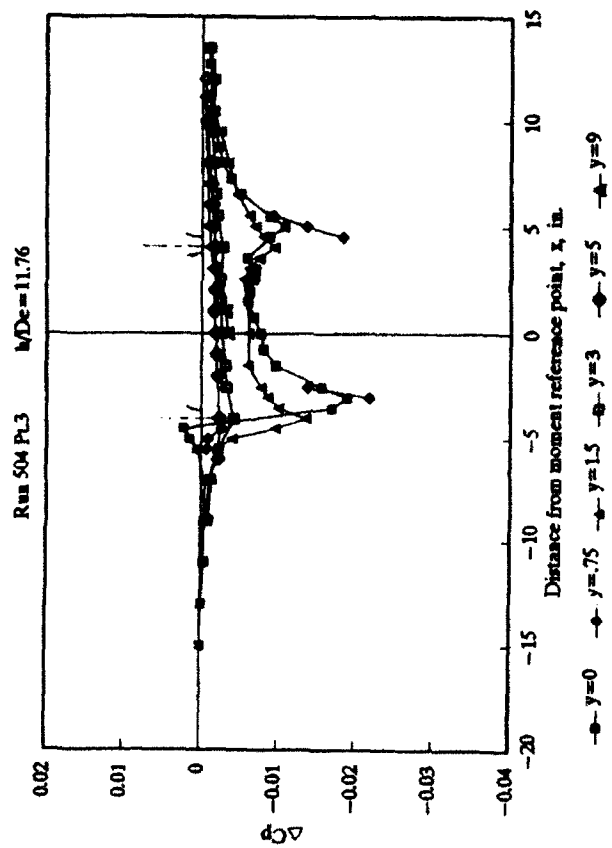


Fig.B-112 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
 $WPR=4$  Run 504  $Ve=.08$



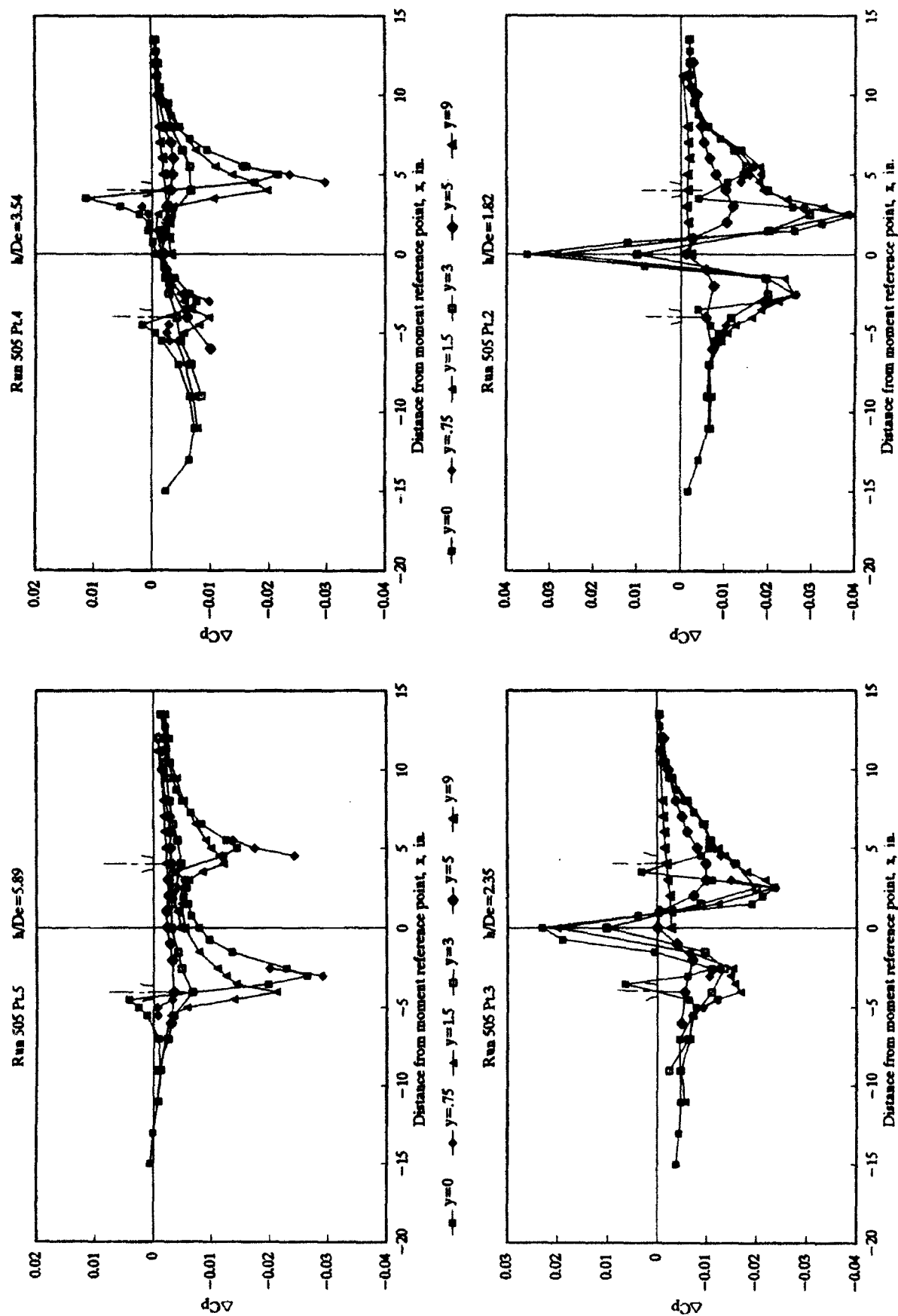


Fig. B-113 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Bo. h Jets  
NPR=4 Run 505  $Ve=.1$

**TABLE B-114 JET INDUCED PRESSURE INCREMENTS**  
**Configuration VII - Both Jets - NPR=6**

[illegible]

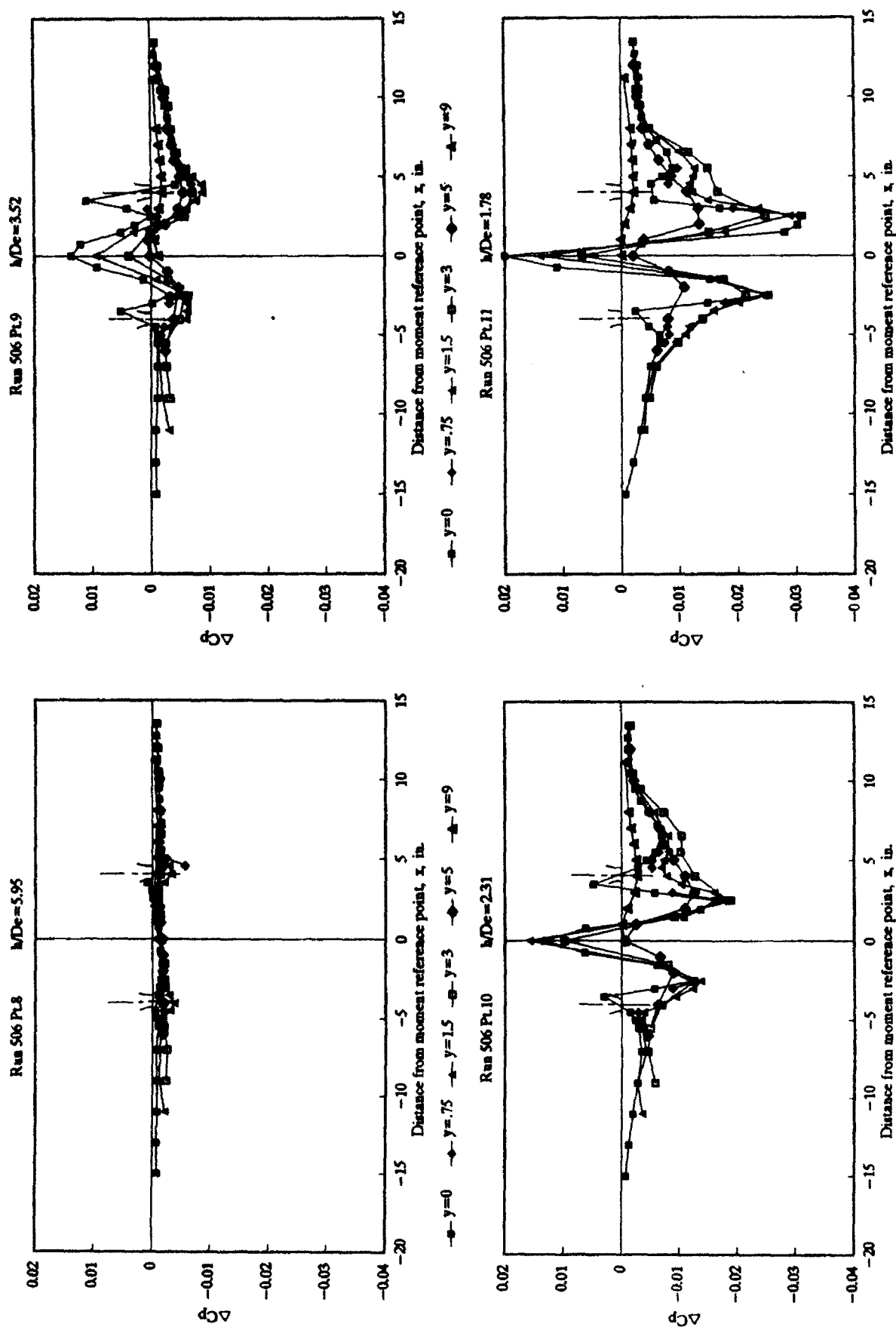


Fig. B-114 Chordwise distributions of jet induced pressure at selected heights - Configuration VII - Both Jets  $NPR=6$   $Run\ 506$   $Ve=0$

Run 507

Force and Moment Summary	
$hD_s =$	24.28
$dL_s =$	-0.042
$dL =$	-0.034
$dM/D_s =$	-0.008
$dM/D_s =$	0.008



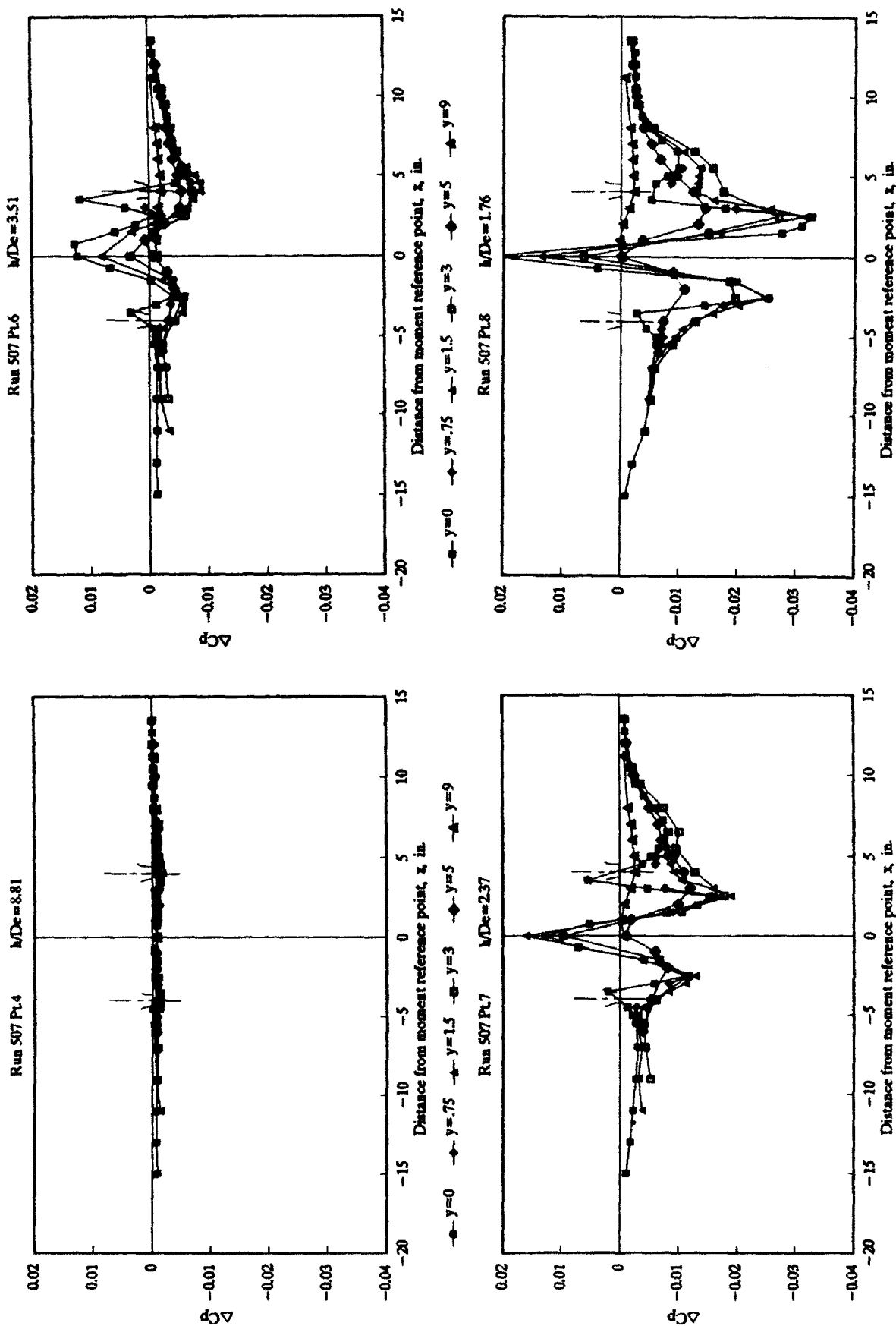


Fig. B-115 Chordwise distributions of jet induced pressure at selected heights - Configuration VII - Both Jets

NPR=6 Run 507  $V_e=0.2$

**TABLE B-116 JET INDUCED PRESSURE INCREMENTS**  
**Configuration VII - Both Jets - NPR=6**

[illegible]

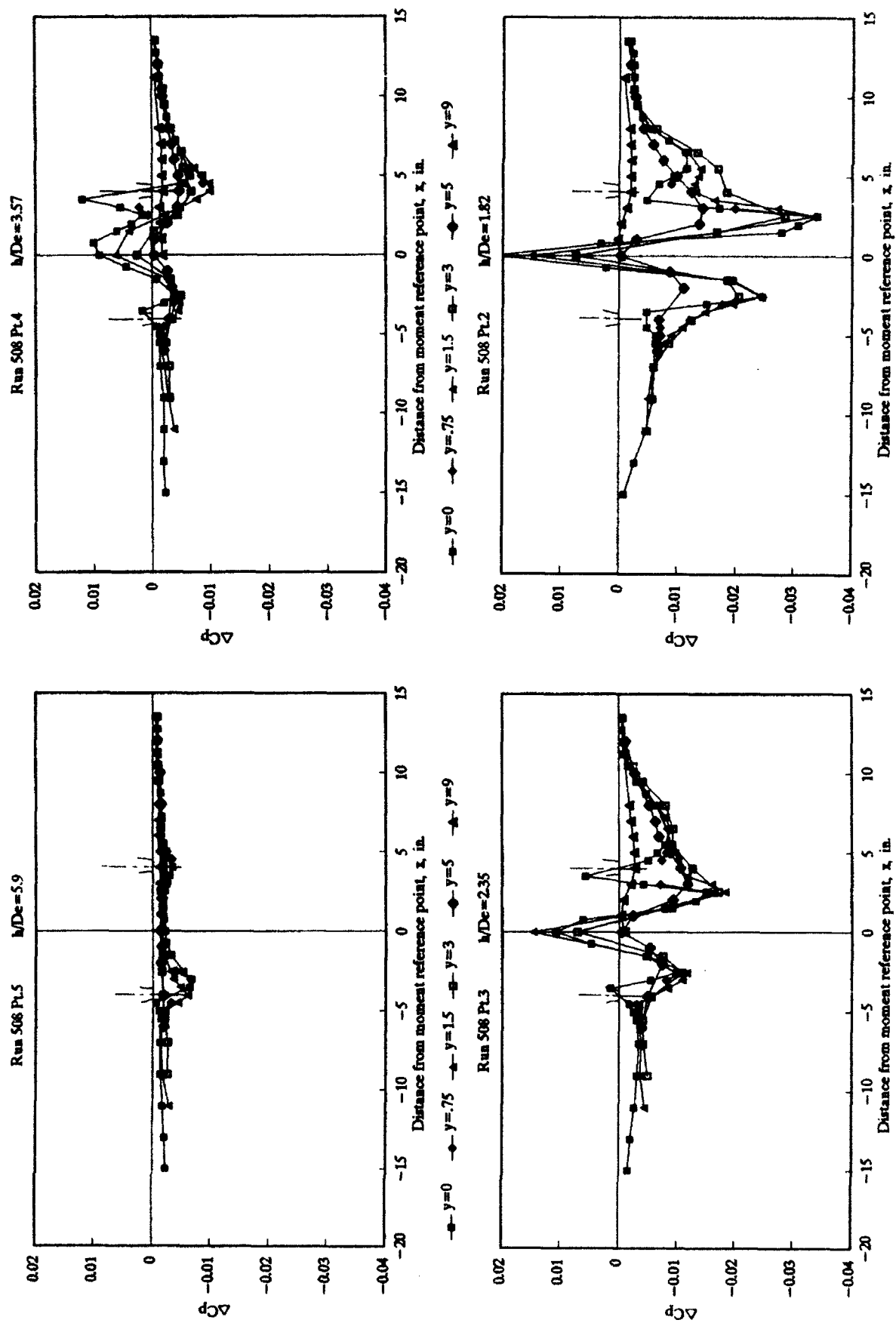


Fig.B-116 Chordwise distributions of jet induced pressure at selected heights - Configuration VII - Both Jets  
MFR=6 Run 508  $V_e=.04$

TABLE B-117 JET INDUCED PRESSURE INCREMENTS  
Configuration VII - Both Jets - NPR=6  
Run 509  $V_e=.06$

[illegible]

### Force and Moment Summary

243

Balance	d/d =	-0.11
Provisions	d/d =	-0.10

**0.00**

Pressure differential 0.005

**Abstract**

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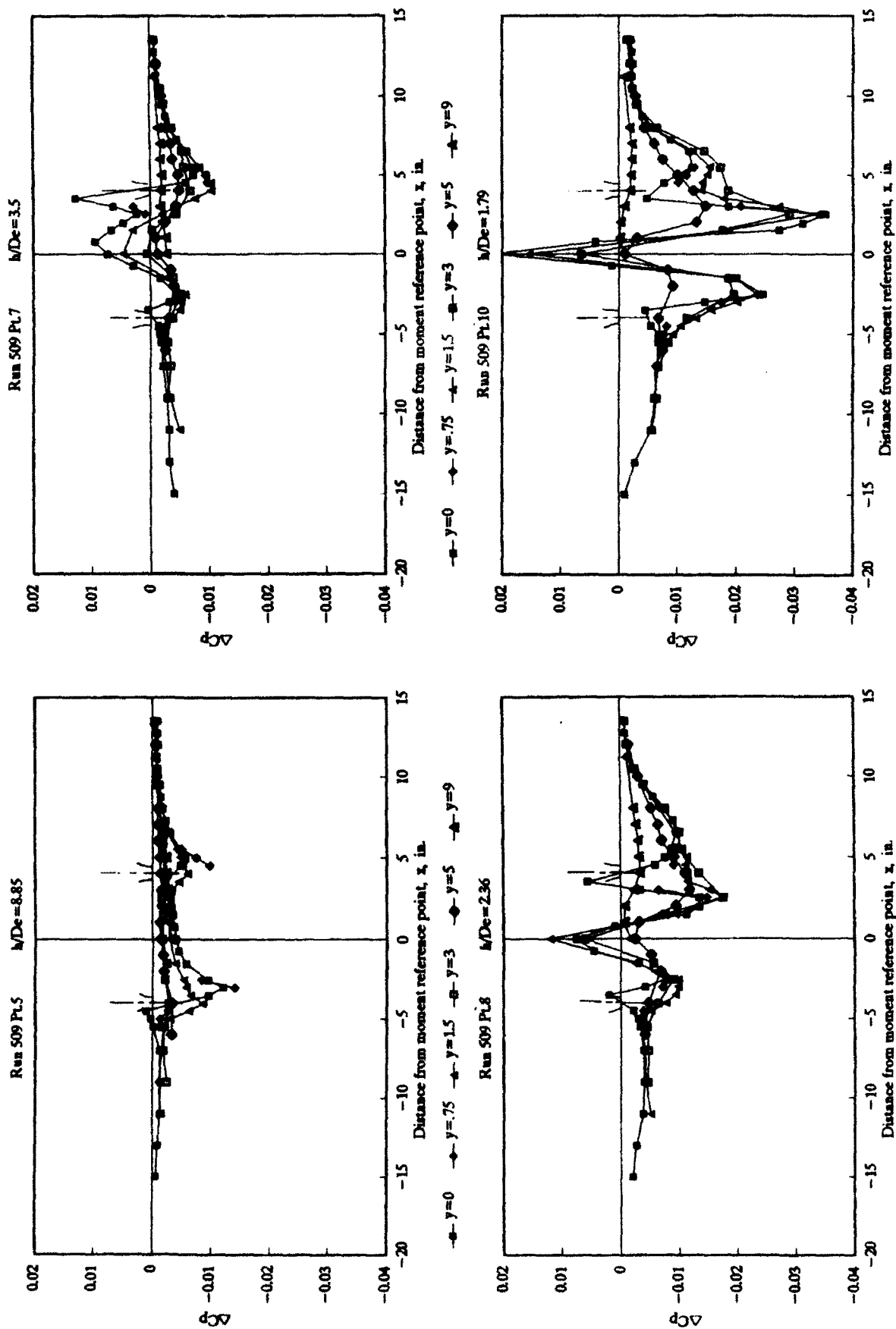


Fig.B-117 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
NPR=6 Run 509  $V_e=.06$



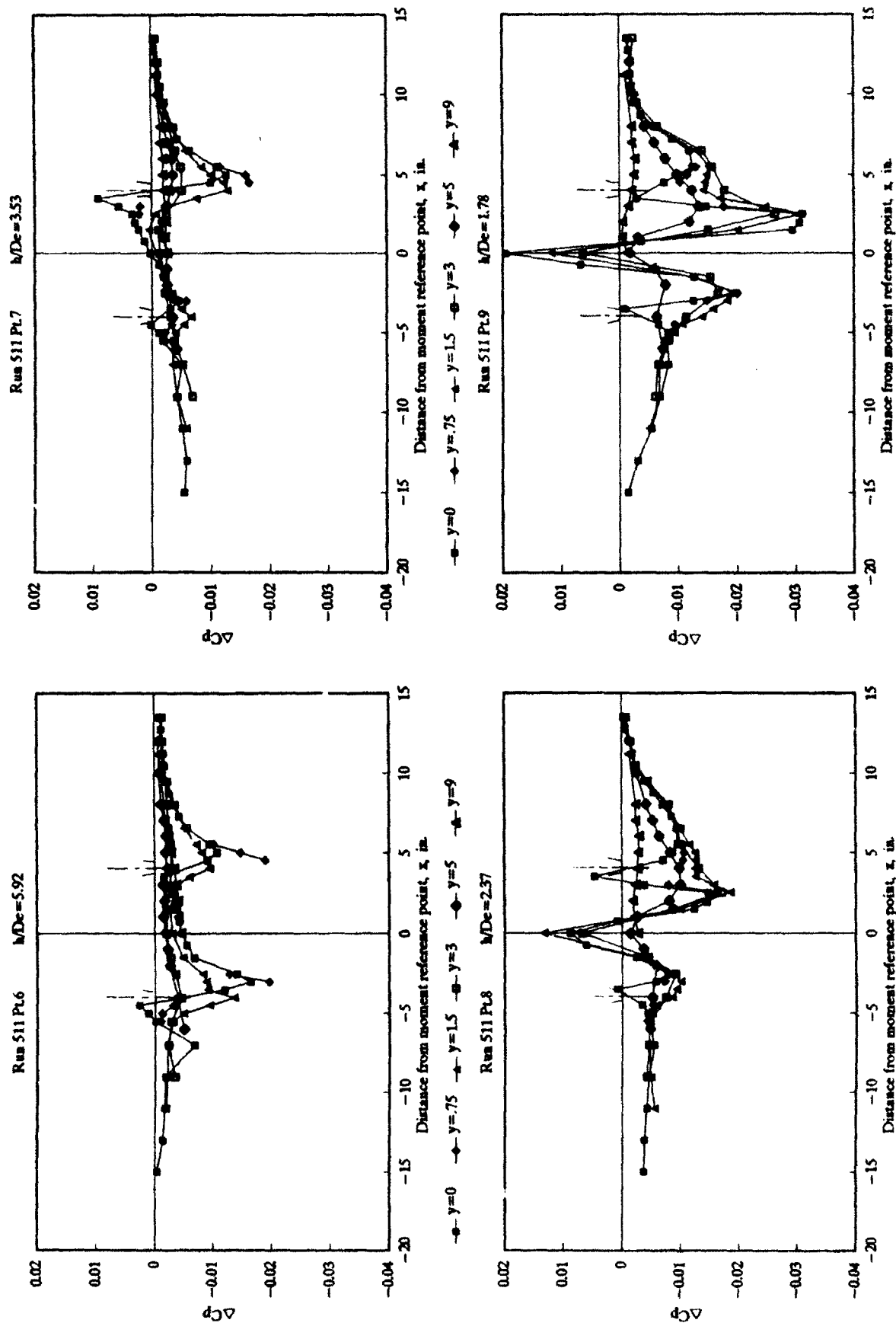


Fig. B-118 Chordwise distributions of jet induced pressure at selected heights - Configuration VII - Both Jets

MFR=6 Run 511  $Ve=.08$





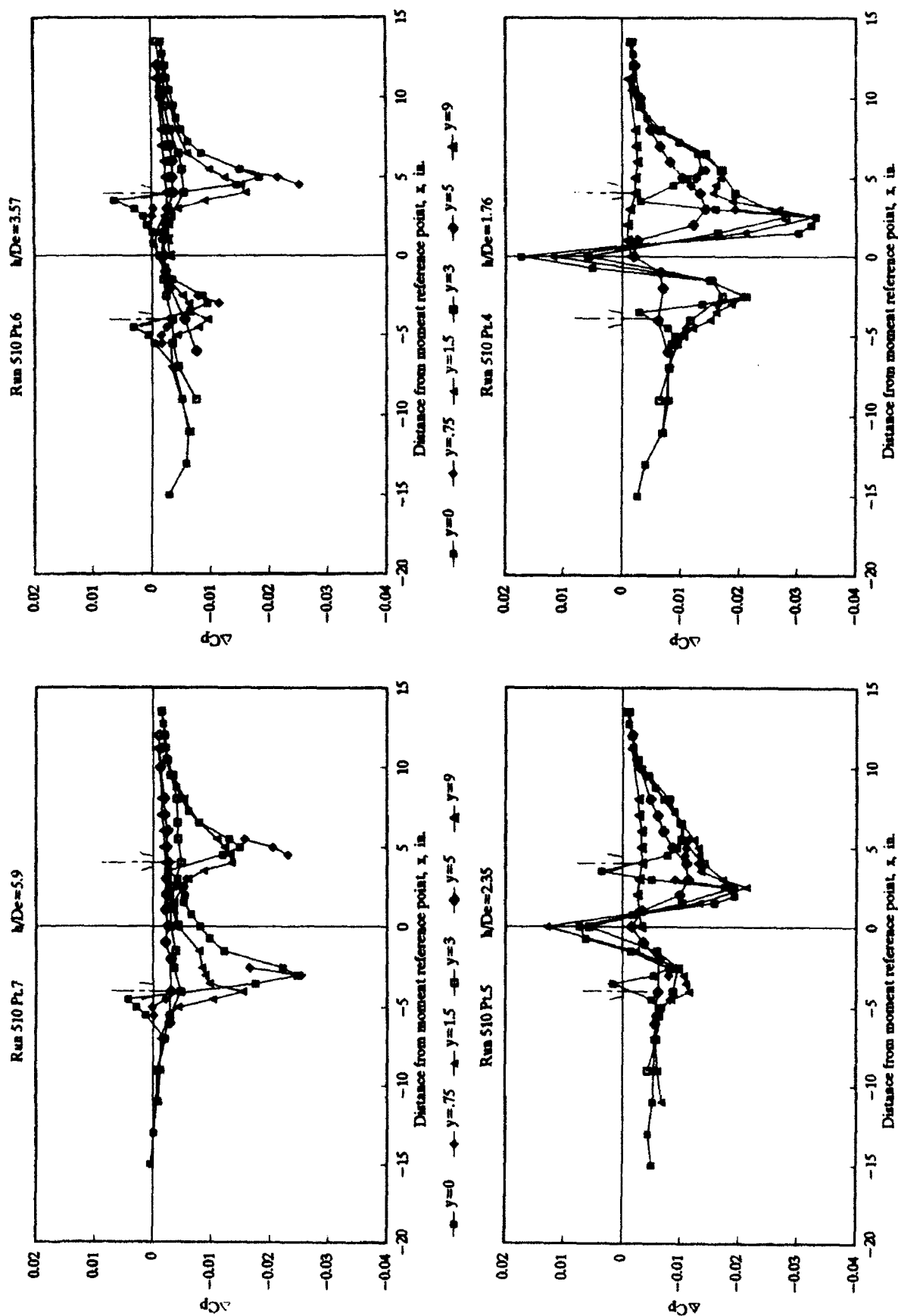


Fig.B-119 Chordwise distributions of jet induced pressure  
at selected heights - Configuration VII - Both Jets  
MFR=6 Run 510  $Ve=.1$

TABLE B-120 JET INDUCED PRESSURE INCREMENTS  
One Rectangular Jet at Station 20 - NPR=2

Run 512												
V=0												
P	N	2	3	4	5	6	7	8	9	10		
Point	NOs =	1.67	2.67	3.37	5.01	12.52	16.86	24.86	34.87			
y	x	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$	$\Delta\phi$
0	-19	-0.0036	-0.0038	-0.0036	-0.0035	-0.0032	-0.0032	-0.0031	-0.0030	-0.0030	0.0030	0.0030
0	-17	-0.0035	-0.0039	-0.0039	-0.0038	-0.0032	-0.0032	-0.0031	-0.0032	-0.0032	0.0032	0.0032
0	-15	-0.0034	-0.0042	-0.0042	-0.0040	-0.0033	-0.0033	-0.0034	-0.0034	-0.0034	0.0034	0.0034
0	-13	-0.0041	-0.0052	-0.0052	-0.0050	-0.0041	-0.0041	-0.0042	-0.0042	-0.0042	0.0042	0.0042
0	-11	-0.0047	-0.0057	-0.0057	-0.0053	-0.0043	-0.0043	-0.0045	-0.0045	-0.0045	0.0045	0.0045
0	-9	-0.0059	-0.0069	-0.0069	-0.0063	-0.0050	-0.0050	-0.0053	-0.0053	-0.0053	0.0053	0.0053
0	-8.5	-0.0067	-0.0077	-0.0077	-0.0070	-0.0054	-0.0054	-0.0058	-0.0058	-0.0058	0.0058	0.0058
0	-8	-0.0068	-0.0081	-0.0081	-0.0072	-0.0052	-0.0052	-0.0058	-0.0058	-0.0058	0.0058	0.0058
0	-7.5	-0.0089	-0.0094	-0.0094	-0.0082	-0.0061	-0.0061	-0.0070	-0.0070	-0.0070	0.0070	0.0070
0	-6.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	-5.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	-4.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	-3.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	-2.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	-1.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	-0.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	0.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	1.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	2.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	3.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	4.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	5.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	6.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	7.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	8.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	9.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0073	-0.0073	-0.0085	-0.0085	-0.0085	0.0085	0.0085
0	10.5	-0.0099	-0.0104	-0.0104	-0.0093	-0.0						

**Attorneys' Fees and Costs**

202

Distance	$dV =$	$-1.30$
Pressure	$dV =$	$-1.30$

-0.446

Process:  $\Delta WTD_{it} = -0.27$

\_\_\_\_\_

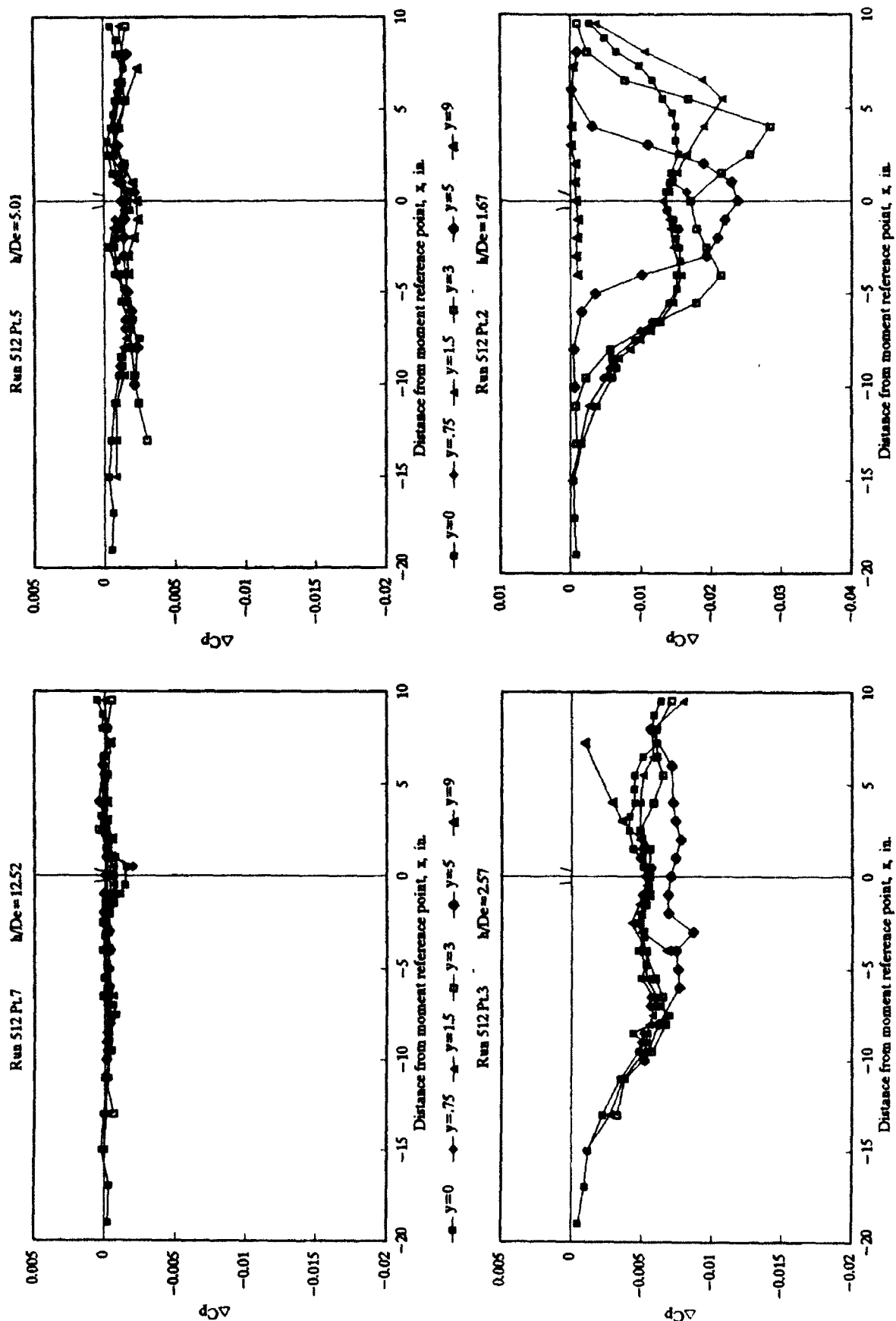


Fig.B-120 Chordwise distributions of jet induced pressure  
at selected heights - One Rectangular Jet at Station 20  
NPR=2 Run 512  $V_e=0$



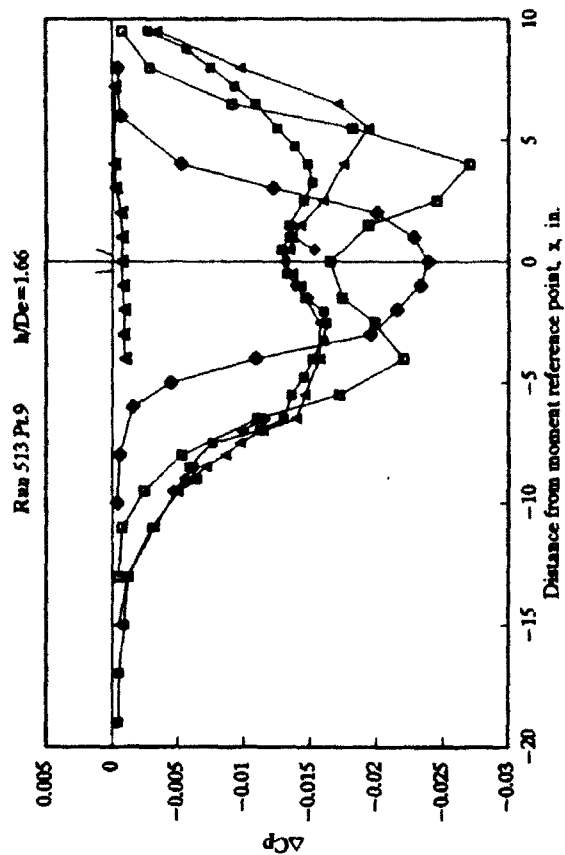
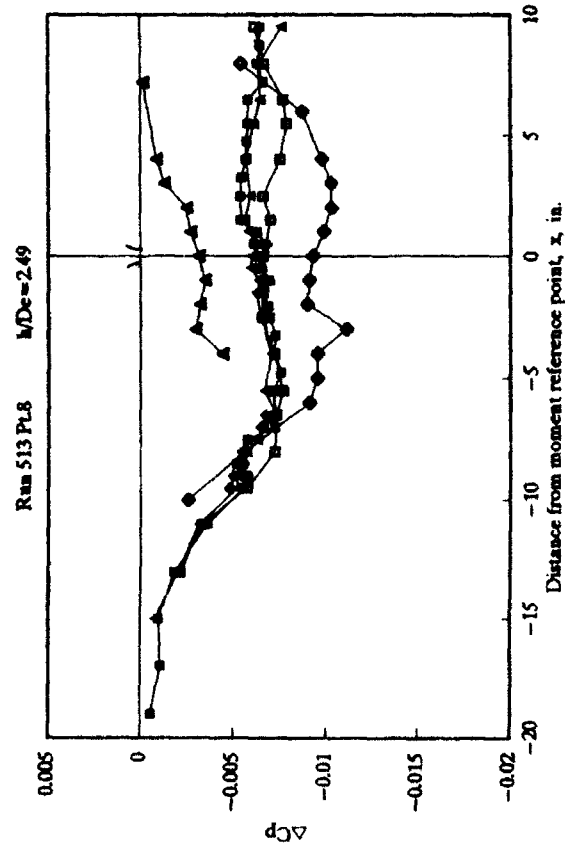
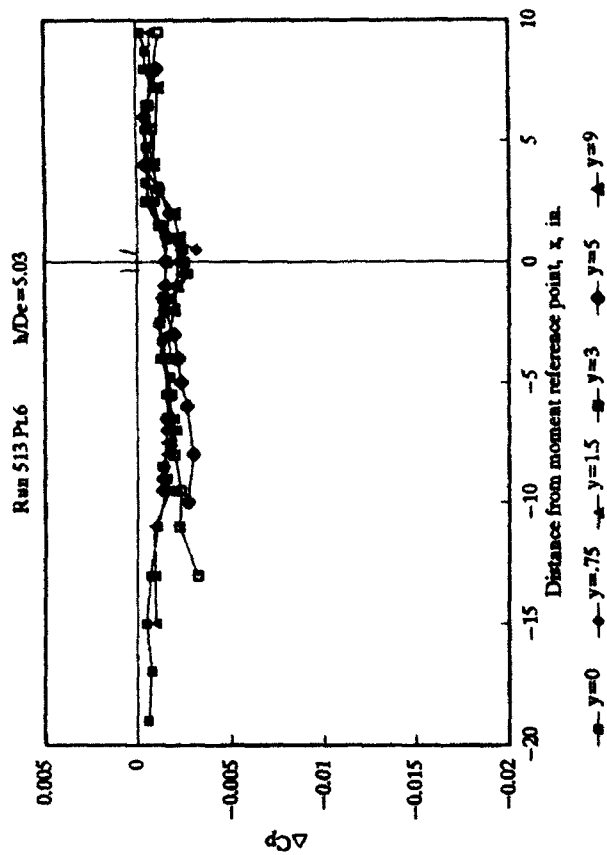
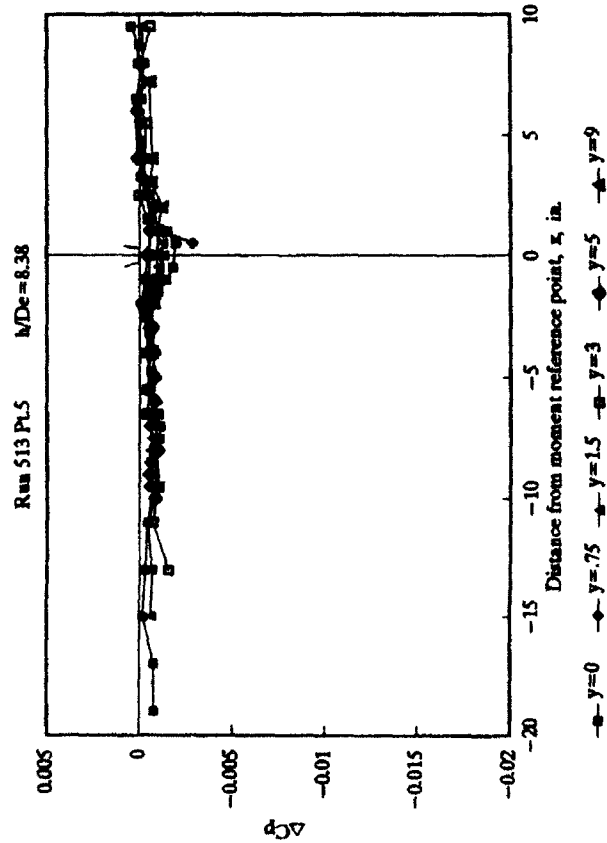


Fig.B-121 Chordwise distributions of jet induced pressure  
at selected heights - One Rectangular Jet at Station 20  
NPR=2  $Ve=.02$  Run 513



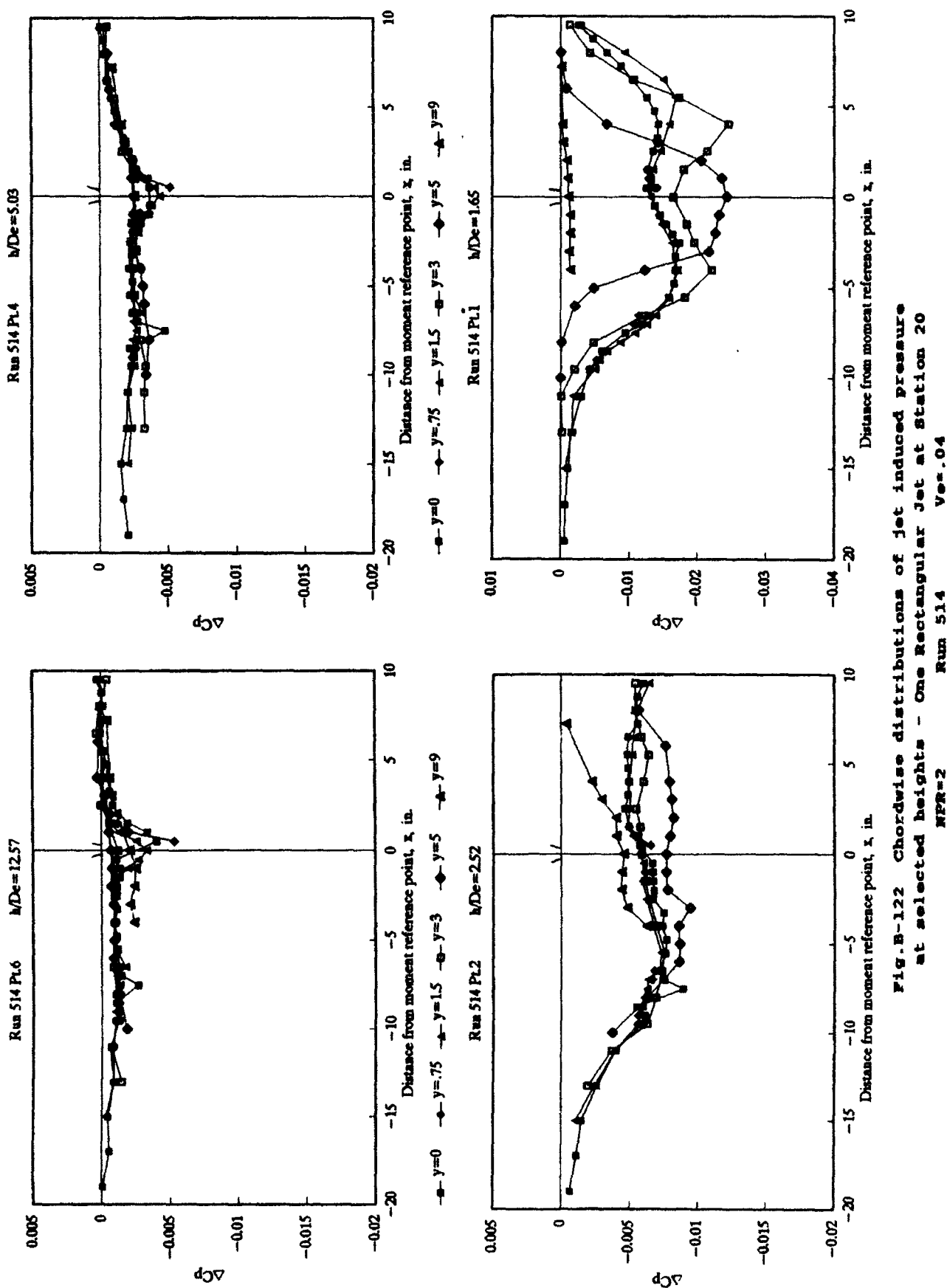


Fig.B-122 Chordwise distributions of jet induced pressure  
at selected heights - One Rectangular Jet at Station 20  
Run 514  $V_{jet}=0.04$   
 $NPR=2$

TABLE B-123 JET INDUCED PRESSURE INCREMENTS  
One Rectangular Jet at Station 20 - MFR=2

Run 515  
Ve=0.06

Point hDe =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Force and Moment Summary  
 WDe = 30.0  
 Balance dJ = -0.124  
 Pressure dJ = -0.116  
 Balance dM/DDe = 0.408  
 Pressure dM/DDe = 0.137



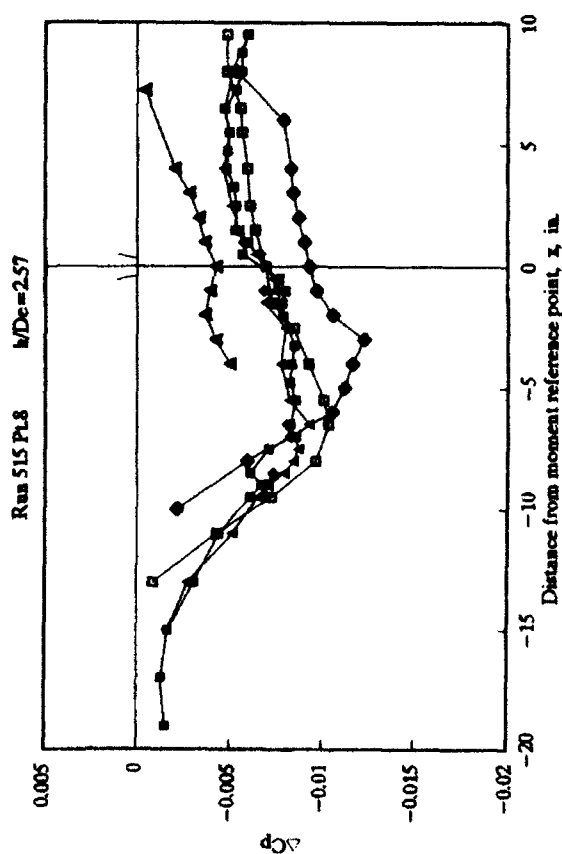
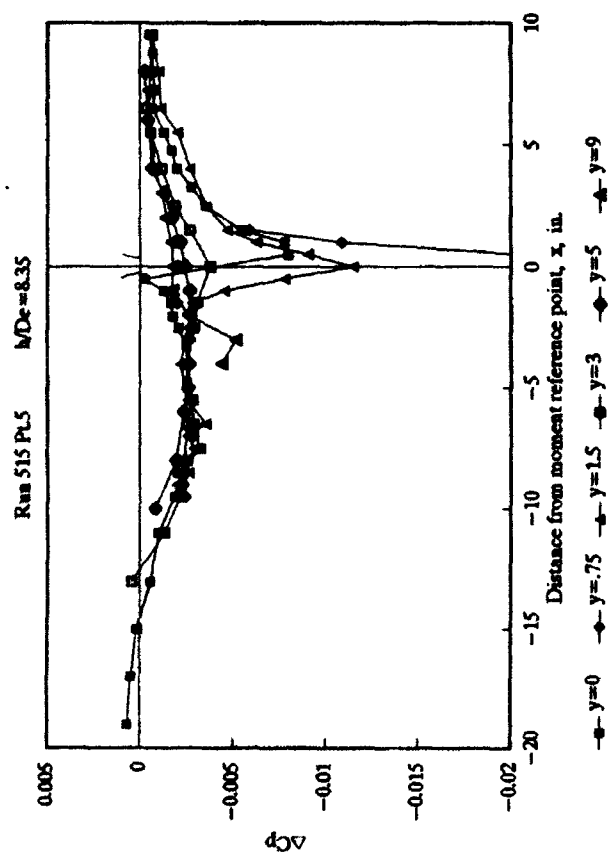
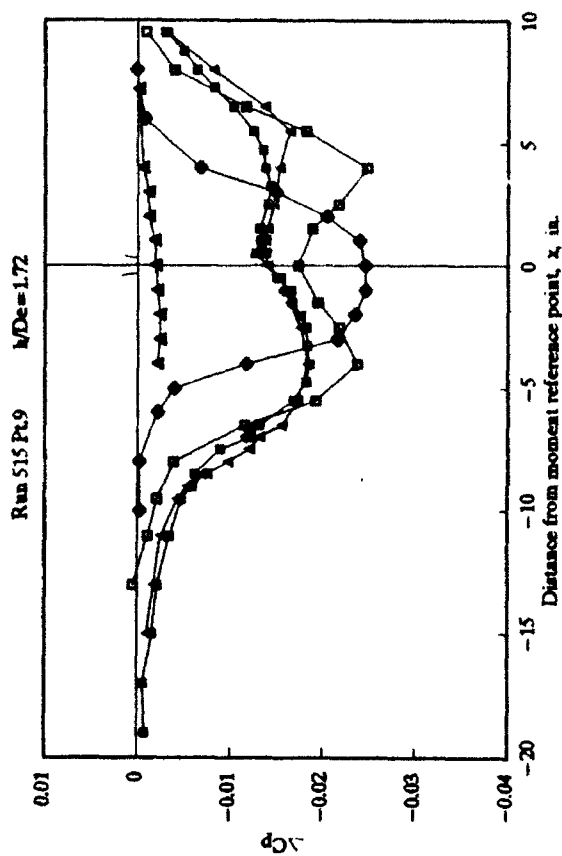
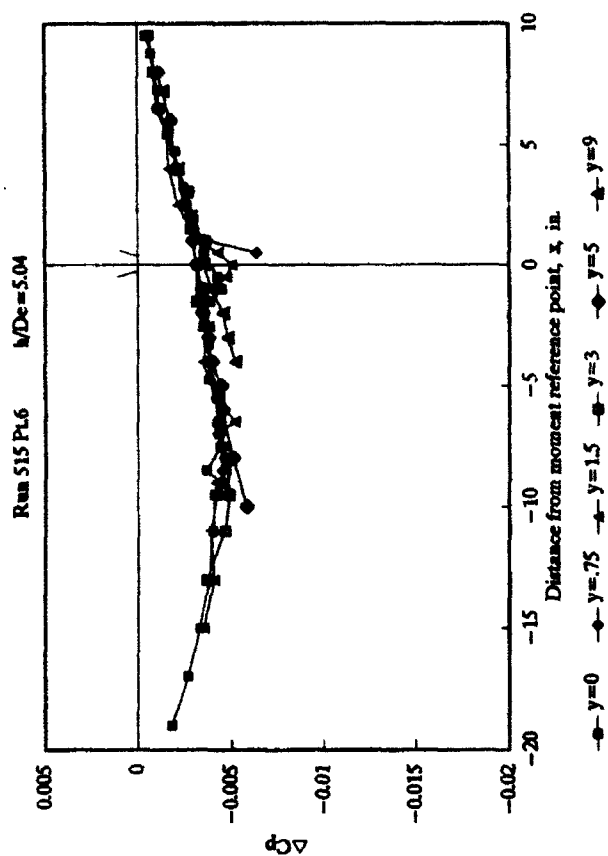


Fig.B-123 Chordwise distributions of jet induced pressure  
at selected heights - One Rectangular Jet at Station 20  
MFR=2 Run 515  $Ve=.06$

TABLE B-124 JET INDUCED PRESSURE INCREMENTS  
One Rectangular Jet at Station 20 - NFR=2  
Run 516 Ves.08

[illegible]

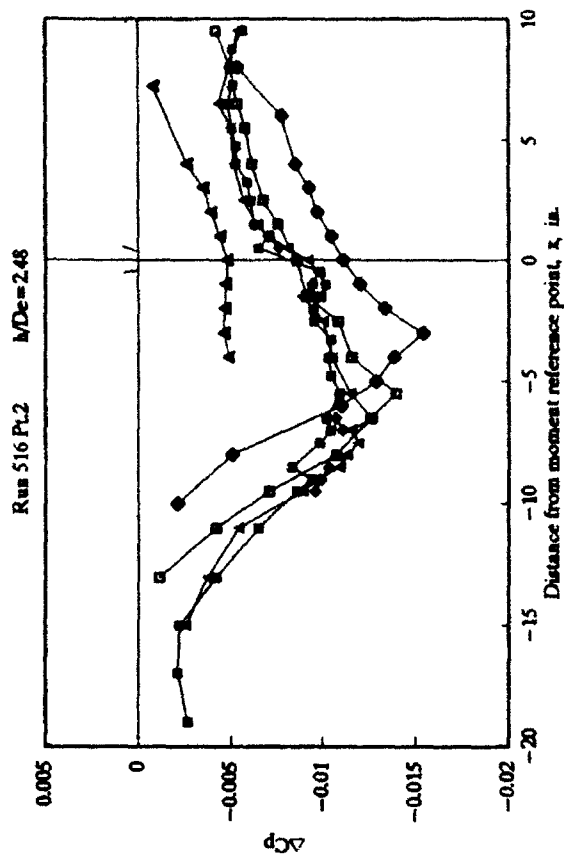
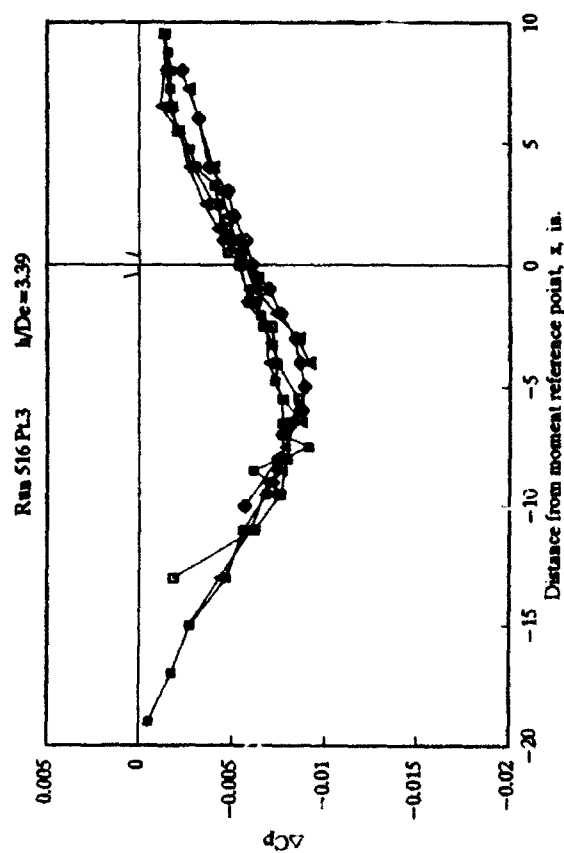
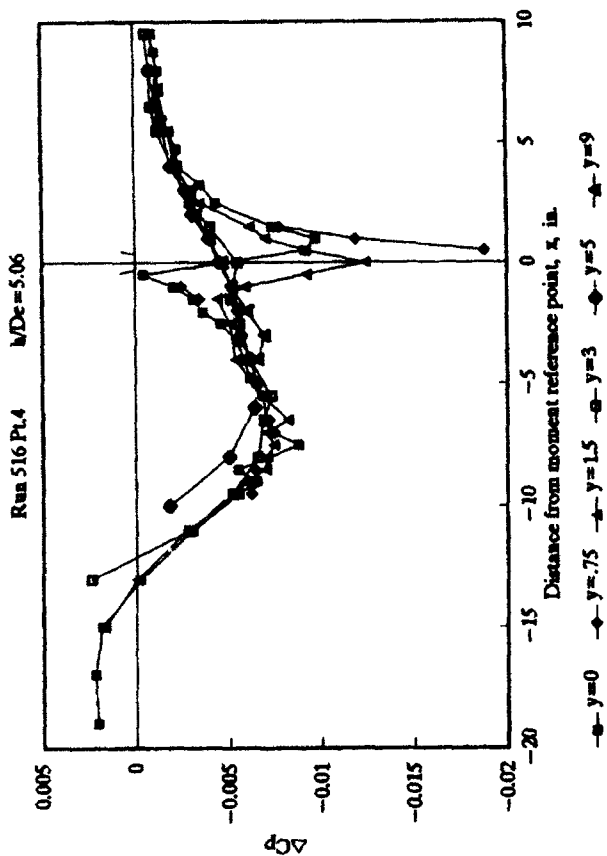
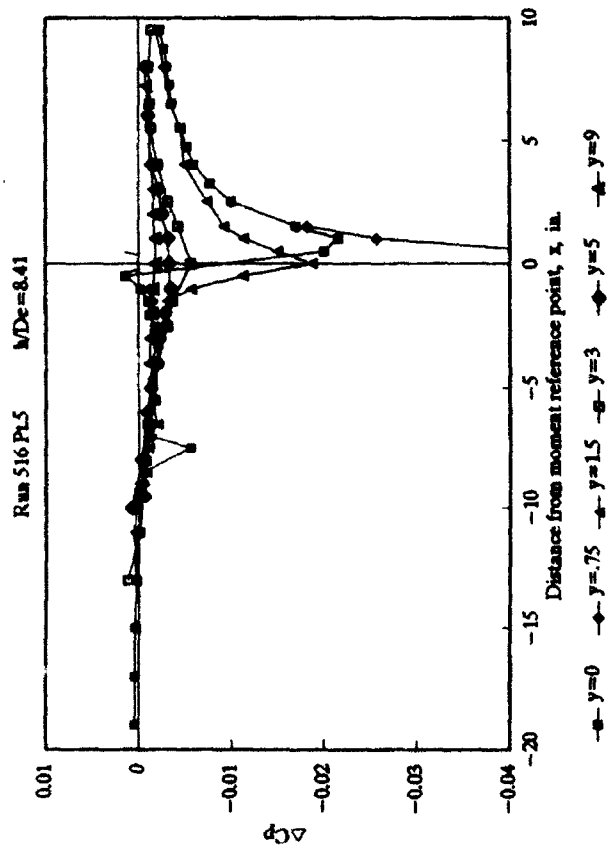


Fig.B-124 Chordwise distributions of jet induced pressure  
at selected heights - One Rectangular Jet at Station 20

NPR-2 Run 516 Ver.08



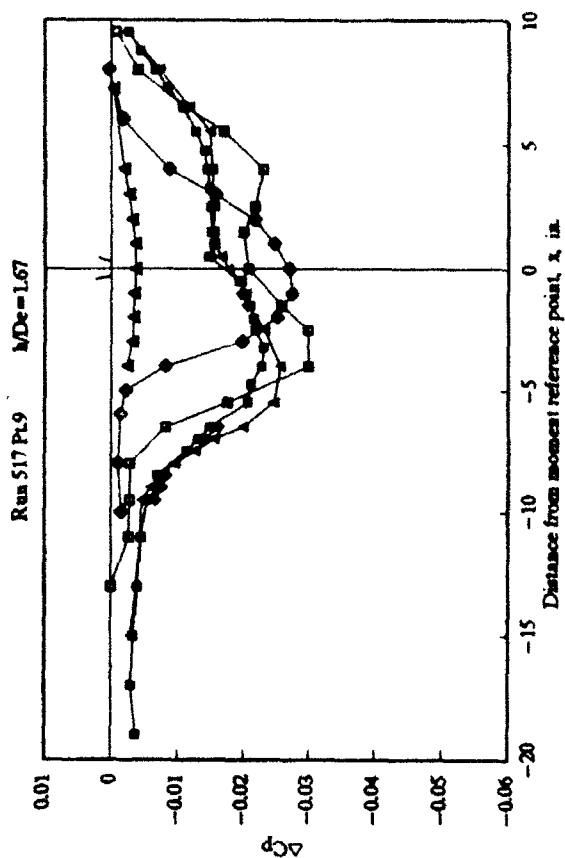
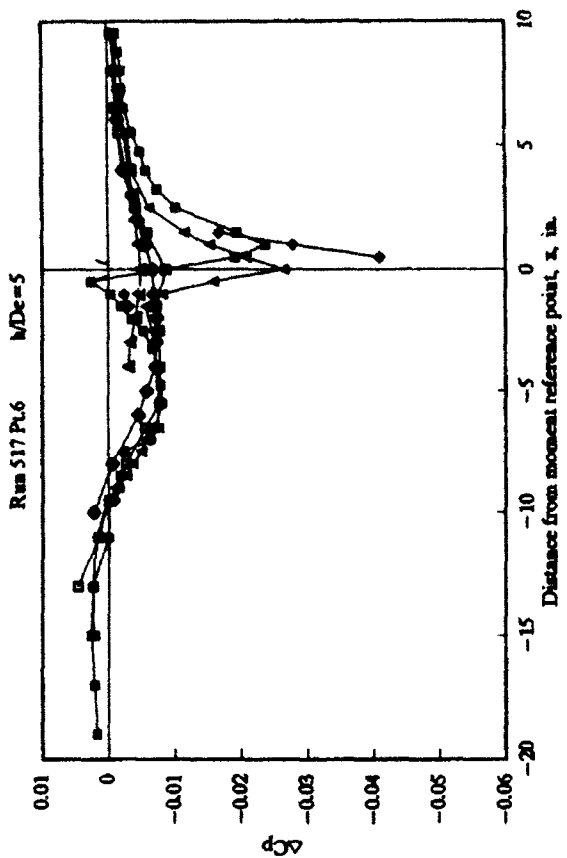
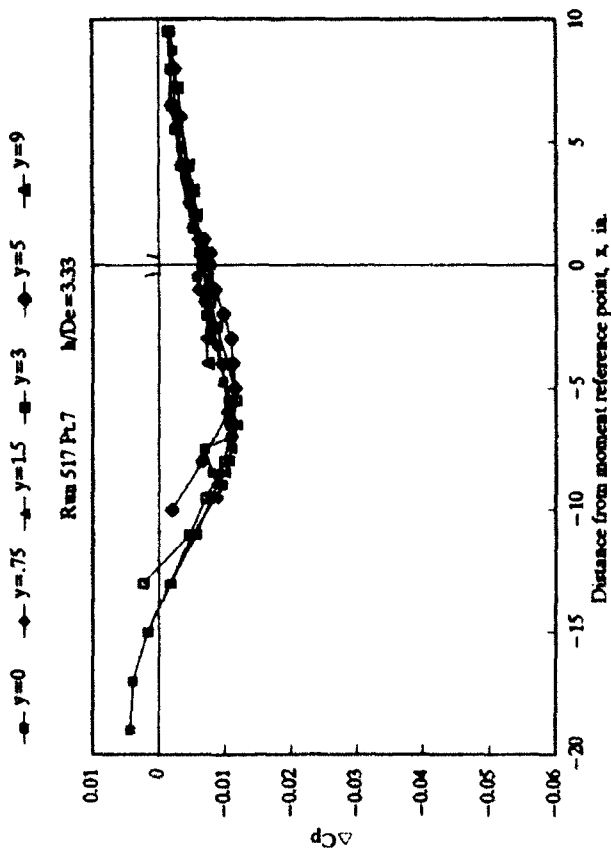
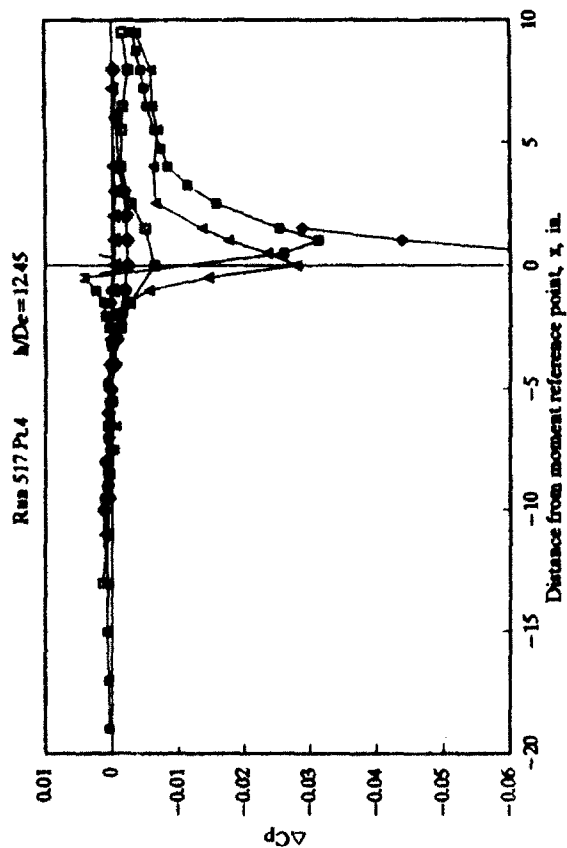


Fig. B-125 Chordwise distributions of jet induced pressure at selected heights - One Rectangular Jet at Station 20

$MFR=2$  Run 517  $Ve=.1$



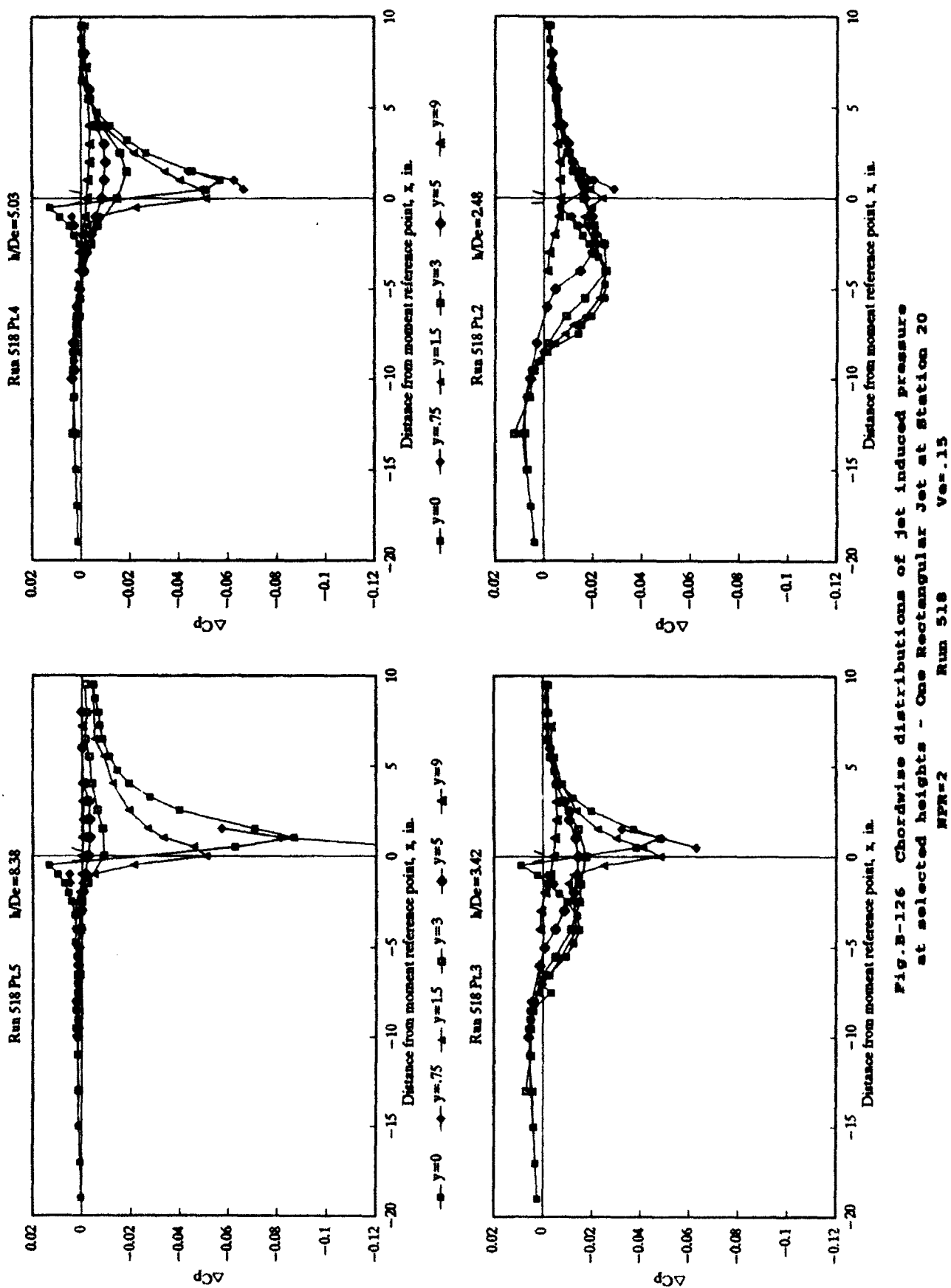


Fig.B-126 Chordwise distributions of jet induced pressure  
at selected heights - One Rectangular Jet at Station 20  
MFR=2 Run 518  $Ve=.15$





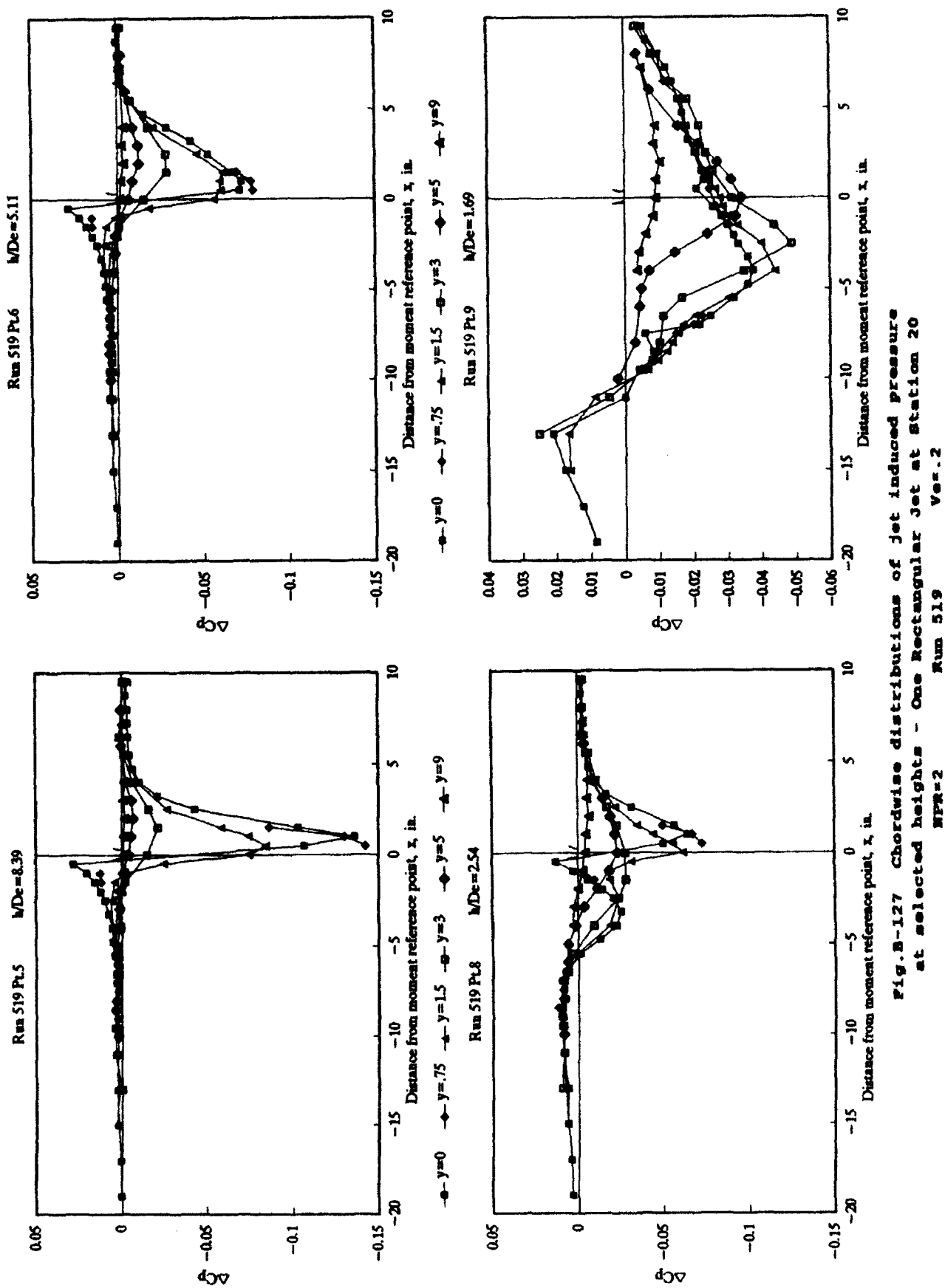


Fig. B-127 Chordwise distributions of jet induced pressure at selected heights - One Rectangular Jet at Station 20

Run 519  $h/De=2$  Ver. 2

# CALCULATION AND PLOTTING OF PRESSURE COEFFICIENTS Conf. # 1 Both jets $A_1 = 2.25$ $R_{10} = < R_{1022P}$

Run # P. # N/Ds N/P T V<sub>0</sub> Q dL/T dM/T<sub>0</sub> from Balance  
528 6 3.66 2.01 81.23 0 0 -0.001 0.414  
-0.083 0.354 Pressure Summation

Port	ESP	Ort.	Phase	Y	X	Power	Pressure	ΔCp	dA	dL/T	dM/T <sub>0</sub>
φ mod.	φ	φ	in.	in.	in.	in.	in.	in.	in.	in.	in.
70	3	41 P1	1.5	-1.5	0.0300	-7.869	-0.0048	3.75	-0.0040	1.5	-0.0038
71	3	42 P1	1.5	0	0.0300	-7.714	0.0047	4.5	0.0047	0	0.0000
72	3	43 P1	1.5	1.5	0.0300	-0.278	0.0028	3.75	0.0041	-1.5	-0.0001
73	3	44 P1	3	-1.5	0.0300	-8.218	0.0080	4.375	-0.0046	1.5	-0.0043
74	3	45 P1	3	0	0.0300	-8.268	0.0118	5.25	0.0021	0	0.0000
75	3	46 P1	3	1.5	0.0300	-3.073	-0.0019	4.375	-0.0019	-1.5	-0.0018
76	3	47 P2	0	0	0.0300	-7.177	-0.0044	1.313	-0.0013	-0.5	0.0049
77	3	48 P2	0	7.25	0.0300	-6.321	-0.0098	1.125	-0.0009	-7.25	0.0040
78	3	49 P2	0	8	0.0300	-8.778	-0.0098	1.125	-0.0009	-8	0.0041
79	3	50 P2	0	9.5	0.0300	-8.288	-0.0052	1.313	-0.0009	-8.75	0.0048
80	3	51 P2	0	9.5	0.0300	-8.288	-0.0052	1.313	-0.0009	-8.75	0.0048
81	3	52 P2	1.5	8.5	0.0300	-6.278	-0.0038	3.75	-0.0032	-8.5	0.0132
82	3	53 P2	1.5	8	0.0300	-4.887	-0.0038	4.5	-0.0038	-8	0.0132
83	3	54 P2	1.5	6.5	0.0300	-4.889	-0.0030	3.75	-0.0038	-8.5	0.0138
84	3	55 P2	3	6.5	0.0300	-6.004	-0.0048	4.375	-0.0047	-6.5	0.0181
85	3	56 P2	3	8	0.0300	-8.889	-0.0054	5.25	-0.0040	-8	0.0189
86	3	57 P2	3	8.5	0.0300	-8.477	-0.0054	4.375	-0.0032	-8.5	0.0181
87	3	58 P2	0	10.5	0.0300	-2.868	-0.0052	1.313	-0.0007	-10.5	0.0040
88	3	59 P2	0	11.5	0.0300	-2.868	-0.0018	1.125	-0.0004	-11.25	0.0038
89	3	60 P2	0	12	0.0300	-2.868	-0.0013	1.125	-0.0004	-12	0.0038
90	3	61 P2	0	12.5	-0.0185	-1.784	-0.0011	1.125	-0.0003	-12.75	0.0038
91	3	62 P2	0	12.5	-0.0185	-1.784	-0.0011	1.125	-0.0003	-12.75	0.0038
92	3	63 P2	1.5	10.5	0.0300	-3.612	-0.0023	3.75	-0.0018	-10.5	0.0180
93	3	64 P2	1.5	12	0.0300	-1.777	-0.0011	4.5	-0.0011	-12	0.0078
94	3	65 P2	1.5	13.5	-0.0163	-1.141	-0.0007	3.75	-0.0008	-13.5	0.0048
95	3	66 P2	3	13.5	0.0300	-8.528	-0.0034	4.375	-0.0023	-13.5	0.0048
96	3	67 P2	3	12	0.0184	-2.488	-0.0016	5.25	-0.0015	-12	0.0126
97	4	68 P4	0	-8.5	0.0300	-3.349	-0.0021	0.854	-0.0003	8.5	-0.0014
98	4	69 P4	0	-8.5	0.0300	-4.778	-0.0039	0.854	-0.0003	8.5	-0.0014
99	4	70 P4	0	-8.5	0.0300	-3.883	-0.0033	0.854	-0.0003	8.5	-0.0010
100	4	71 P4	0	-4.5	0.0300	-3.883	-0.0033	0.854	-0.0003	4.5	-0.0009
101	4	72 P4	0	-3.5	0.0300	-8.204	-0.0038	0.854	-0.0004	3.5	-0.0009
102	4	73 P4	0	-2.5	0.0300	-8.482	-0.0033	0.854	-0.0004	2.5	-0.0013
103	4	74 P4	0	-2.5	0.0300	-10.15	-0.0032	0.854	-0.0004	2.5	-0.0014
104	4	75 P4	0	-2.2	0.0300	-11.36	-0.0073	0.854	-0.0010	2.2	-0.0013
105	4	76 P4	0.8	-4	0.0300	-8.989	-0.0053	1.258	-0.0014	4	-0.0034
106	4	77 P4	1.5	-6.5	0.0300	-4.387	-0.0037	3.18	-0.0019	6.5	-0.0081
107	4	78 P4	1.5	-6.5	0.0300	-4.387	-0.0037	3.18	-0.0019	6.5	-0.0081
108	4	79 P4	1.5	-2.5	0.0300	-9.272	-0.0046	4.375	-0.0043	2.5	-0.0088
109	4	80 P4	3	-8.5	0.0300	-7.318	-0.0046	4.375	-0.0043	8.5	-0.0140
110	4	81 P4	3	-4	0.0300	-4.727	-0.0039	5.25	-0.0034	4	-0.0079
111	4	82 P4	3	-2.5	0.0300	-8.291	-0.0051	4.375	-0.0048	2.5	-0.0072
120	5	84 P5	0	2.15	0.0300	-8.483	-0.0043	0.854	-0.0008	-2.15	0.0008
130	5	85 P5	0	2.5	0.0300	-7.03	-0.0043	0.854	-0.0007	-2.5	0.0010
140	5	86 P5	0	2.89	0.0300	-7.117	-0.0044	0.854	-0.0007	-2.89	0.0011
150	5	87 P5	0	3.2	0.0300	-8.989	-0.0053	0.854	-0.0007	-3.2	-0.0002
160	5	88 P5	0	4.5	0.0300	-18.87	-0.0098	0.854	-0.0013	-4.5	0.0037
170	5	89 P5	0	5.15	0.0300	-13.33	-0.0082	0.854	-0.0010	-5.15	0.0037
180	5	90 P5	0	8.5	0.0300	-10.89	-0.0098	0.854	-0.0010	-8.5	0.0038
190	5	91 P5	0	8.95	0.0300	-8.44	-0.0098	0.854	-0.0008	-8.95	0.0038
200	5	92 P5	1.5	2.5	0.0300	-14.5	-0.0098	3.18	-0.0038	-2.5	0.0088
210	5	93 P5	1.5	4	0.0300	-10.89	-0.0098	3.18	-0.0038	-4	-0.0001
220	5	94 P5	1.5	4	0.0300	-10.89	-0.0098	3.18	-0.0038	-4	-0.0001
230	5	95 P5	1.5	8.5	0.0300	-10.75	-0.0098	3.18	-0.0038	-8.5	0.0160
240	5	96 P5	3	2.5	0.0300	-13.5	-0.0098	4.375	-0.0032	-2.5	0.0120
250	5	97 P5	3	4	0.0300	-18.08	-0.0098	5.25	-0.0107	-4	0.0032
260	5	98 P5	3	8.5	0.0300	-10.8	-0.0097	4.375	-0.0098	-8.5	0.0008

## a) Configuration 1

Fig. B-128 Sample spread sheet including the increment of area and effective moment arm assigned to each orifice.

# CALCULATION AND PLOTTING OF PRESSURE COEFFICIENTS Card #2

Both jets  $N = 8.25$   $\mu = 0.0009$

Run: P, d, ND, NPM, T, V, Q, dL/T, dM/TD, Mem.  
640 8 2.0 8.01 81.15 0 0 -0.289 0.282 From Balance  
-0.289 0.287 Press. Sum.

Port	ESP	Orif.	Photo	Y	X	W	Pressure	$\Delta C_p$	dA	dL/T	Mem.
g	mod.	g	g	in.	in.	in.	psd		sq. in.	mm	in.
1	1	1	1	1	1	1	1	1	1	1	1
2	1	2	1	2	1	2	1	2	1	2	1
3	1	3	1	3	1	3	1	3	1	3	1
4	1	4	1	4	1	4	1	4	1	4	1
5	1	5	1	5	1	5	1	5	1	5	1
6	1	6	1	6	1	6	1	6	1	6	1
7	1	7	1	7	1	7	1	7	1	7	1
8	1	8	1	8	1	8	1	8	1	8	1
9	1	9	1	9	1	9	1	9	1	9	1
10	1	10	1	10	1	10	1	10	1	10	1
11	1	11	1	11	1	11	1	11	1	11	1
12	1	12	1	12	1	12	1	12	1	12	1
13	1	13	1	13	1	13	1	13	1	13	1
14	1	14	1	14	1	14	1	14	1	14	1
15	1	15	1	15	1	15	1	15	1	15	1
16	1	16	1	16	1	16	1	16	1	16	1
17	1	17	1	17	1	17	1	17	1	17	1
18	1	18	1	18	1	18	1	18	1	18	1
19	1	19	1	19	1	19	1	19	1	19	1
20	1	20	1	20	1	20	1	20	1	20	1
21	1	21	1	21	1	21	1	21	1	21	1
22	1	22	1	22	1	22	1	22	1	22	1
23	1	23	1	23	1	23	1	23	1	23	1
24	1	24	1	24	1	24	1	24	1	24	1
25	1	25	1	25	1	25	1	25	1	25	1
26	1	26	1	26	1	26	1	26	1	26	1
27	1	27	1	27	1	27	1	27	1	27	1
28	1	28	1	28	1	28	1	28	1	28	1
29	1	29	1	29	1	29	1	29	1	29	1
30	1	30	1	30	1	30	1	30	1	30	1
31	1	31	1	31	1	31	1	31	1	31	1
32	1	32	1	32	1	32	1	32	1	32	1
33	1	33	1	33	1	33	1	33	1	33	1
34	1	34	1	34	1	34	1	34	1	34	1
35	1	35	1	35	1	35	1	35	1	35	1
36	1	36	1	36	1	36	1	36	1	36	1
37	1	37	1	37	1	37	1	37	1	37	1
38	1	38	1	38	1	38	1	38	1	38	1
39	1	39	1	39	1	39	1	39	1	39	1
40	1	40	1	40	1	40	1	40	1	40	1
41	1	41	1	41	1	41	1	41	1	41	1
42	1	42	1	42	1	42	1	42	1	42	1
43	1	43	1	43	1	43	1	43	1	43	1
44	1	44	1	44	1	44	1	44	1	44	1
45	1	45	1	45	1	45	1	45	1	45	1
46	1	46	1	46	1	46	1	46	1	46	1
47	1	47	1	47	1	47	1	47	1	47	1
48	1	48	1	48	1	48	1	48	1	48	1
49	1	49	1	49	1	49	1	49	1	49	1
50	1	50	1	50	1	50	1	50	1	50	1
51	1	51	1	51	1	51	1	51	1	51	1
52	1	52	1	52	1	52	1	52	1	52	1
53	1	53	1	53	1	53	1	53	1	53	1
54	1	54	1	54	1	54	1	54	1	54	1
55	1	55	1	55	1	55	1	55	1	55	1
56	1	56	1	56	1	56	1	56	1	56	1
57	1	57	1	57	1	57	1	57	1	57	1
58	1	58	1	58	1	58	1	58	1	58	1
59	1	59	1	59	1	59	1	59	1	59	1
60	1	60	1	60	1	60	1	60	1	60	1
61	1	61	1	61	1	61	1	61	1	61	1
62	1	62	1	62	1	62	1	62	1	62	1
63	1	63	1	63	1	63	1	63	1	63	1
64	1	64	1	64	1	64	1	64	1	64	1
65	1	65	1	65	1	65	1	65	1	65	1
66	1	66	1	66	1	66	1	66	1	66	1
67	1	67	1	67	1	67	1	67	1	67	1
68	1	68	1	68	1	68	1	68	1	68	1
69	1	69	1	69	1	69	1	69	1	69	1
70	1	70	1	70	1	70	1	70	1	70	1

b) Configuration II  
Fig. B-128 Continued.

# CALCULATION AND PLOTTING OF PRESSURE COEFFICIENTS Conf. 43 All three jobs Air 2.58 Pts 4780004

Run # 6 P. 6 NO. 6 T 91.41 0 0 dL/T dM/Ds from Balance  
280 6 3.85 2.01 91.41 0 0 -0.0197 0.319 -0.0206 0.280 Pressure Summary

Port	ESP	Off	Phase	Y	X	Power	Pressure	ΔP	dA	dL/T	Mem.
°	mod.	°	in.	in.	Cps	psf	in.	in.	sq. in.	in.	in.
1	1 DW	0	-17	0.0002	0.381	0.0002	0.3	0.0001	14.886	0.0011	14.886
2	1 DW	0	-15	0.0004	0.461	0.0003	0.689	0.0004	14.886	0.0014	14.886
3	1 DW	0	-13	0.0006	0.541	0.0005	1.068	0.0006	14.886	0.0017	14.886
4	1 DW	0	-11	0.0008	0.621	0.0007	1.447	0.0008	14.886	0.0020	14.886
5	1 DW	0	-9	0.0010	0.701	0.0009	1.826	0.0010	14.886	0.0023	14.886
6	1 DW	0	-7	0.0012	0.781	0.0011	2.205	0.0012	14.886	0.0026	14.886
7	1 DW	0	-5	0.0014	0.861	0.0013	2.584	0.0014	14.886	0.0029	14.886
8	1 DW	0	-3	0.0016	0.941	0.0015	2.963	0.0016	14.886	0.0032	14.886
9	1 DW	0	-1	0.0018	1.021	0.0017	3.342	0.0018	14.886	0.0035	14.886
10	1 DW	0	1	0.0020	1.101	0.0019	3.721	0.0020	14.886	0.0038	14.886
11	1 DW	0	3	0.0022	1.181	0.0021	4.100	0.0022	14.886	0.0041	14.886
12	1 DW	0	5	0.0024	1.261	0.0023	4.479	0.0024	14.886	0.0044	14.886
13	1 DW	0	7	0.0026	1.341	0.0025	4.858	0.0026	14.886	0.0047	14.886
14	1 DW	0	9	0.0028	1.421	0.0027	5.237	0.0028	14.886	0.0050	14.886
15	1 DW	0	11	0.0030	1.501	0.0029	5.616	0.0030	14.886	0.0053	14.886
16	1 DW	0	13	0.0032	1.581	0.0031	5.995	0.0032	14.886	0.0056	14.886
17	1 DW	0	15	0.0034	1.661	0.0033	6.374	0.0034	14.886	0.0059	14.886
18	1 DW	0	17	0.0036	1.741	0.0035	6.753	0.0036	14.886	0.0062	14.886
19	1 DW	0	19	0.0038	1.821	0.0037	7.132	0.0038	14.886	0.0065	14.886
20	1 DW	0	21	0.0040	1.901	0.0039	7.511	0.0040	14.886	0.0068	14.886
21	1 DW	0	23	0.0042	1.981	0.0041	7.890	0.0042	14.886	0.0071	14.886
22	1 DW	0	25	0.0044	2.061	0.0043	8.269	0.0044	14.886	0.0074	14.886
23	1 DW	0	27	0.0046	2.141	0.0045	8.648	0.0046	14.886	0.0077	14.886
24	1 DW	0	29	0.0048	2.221	0.0047	9.027	0.0048	14.886	0.0080	14.886
25	1 DW	0	31	0.0050	2.301	0.0049	9.406	0.0050	14.886	0.0083	14.886
26	1 DW	0	33	0.0052	2.381	0.0051	9.785	0.0052	14.886	0.0086	14.886
27	1 DW	0	35	0.0054	2.461	0.0053	10.164	0.0054	14.886	0.0089	14.886
28	1 DW	0	37	0.0056	2.541	0.0055	10.543	0.0056	14.886	0.0092	14.886
29	1 DW	0	39	0.0058	2.621	0.0057	10.922	0.0058	14.886	0.0095	14.886
30	1 DW	0	41	0.0060	2.701	0.0059	11.301	0.0060	14.886	0.0098	14.886
31	1 DW	0	43	0.0062	2.781	0.0061	11.680	0.0062	14.886	0.0101	14.886
32	1 DW	0	45	0.0064	2.861	0.0063	12.059	0.0064	14.886	0.0104	14.886
33	1 DW	0	47	0.0066	2.941	0.0065	12.438	0.0066	14.886	0.0107	14.886
34	1 DW	0	49	0.0068	3.021	0.0067	12.817	0.0068	14.886	0.0110	14.886
35	1 DW	0	51	0.0070	3.101	0.0069	13.196	0.0070	14.886	0.0113	14.886
36	1 DW	0	53	0.0072	3.181	0.0071	13.575	0.0072	14.886	0.0116	14.886
37	1 DW	0	55	0.0074	3.261	0.0073	13.954	0.0074	14.886	0.0119	14.886
38	1 DW	0	57	0.0076	3.341	0.0075	14.333	0.0076	14.886	0.0122	14.886
39	1 DW	0	59	0.0078	3.421	0.0077	14.712	0.0078	14.886	0.0125	14.886
40	1 DW	0	61	0.0080	3.501	0.0079	15.091	0.0080	14.886	0.0128	14.886
41	1 DW	0	63	0.0082	3.581	0.0081	15.470	0.0082	14.886	0.0131	14.886
42	1 DW	0	65	0.0084	3.661	0.0083	15.849	0.0084	14.886	0.0134	14.886
43	1 DW	0	67	0.0086	3.741	0.0085	16.228	0.0086	14.886	0.0137	14.886
44	1 DW	0	69	0.0088	3.821	0.0087	16.607	0.0088	14.886	0.0140	14.886
45	1 DW	0	71	0.0090	3.901	0.0089	16.986	0.0090	14.886	0.0143	14.886
46	1 DW	0	73	0.0092	3.981	0.0091	17.365	0.0092	14.886	0.0146	14.886
47	1 DW	0	75	0.0094	4.061	0.0093	17.744	0.0094	14.886	0.0149	14.886
48	1 DW	0	77	0.0096	4.141	0.0095	18.123	0.0096	14.886	0.0152	14.886
49	1 DW	0	79	0.0098	4.221	0.0097	18.502	0.0098	14.886	0.0155	14.886
50	1 DW	0	81	0.0100	4.301	0.0099	18.881	0.0100	14.886	0.0158	14.886
51	1 DW	0	83	0.0102	4.381	0.0101	19.260	0.0102	14.886	0.0161	14.886
52	1 DW	0	85	0.0104	4.461	0.0103	19.639	0.0104	14.886	0.0164	14.886
53	1 DW	0	87	0.0106	4.541	0.0105	20.018	0.0106	14.886	0.0167	14.886
54	1 DW	0	89	0.0108	4.621	0.0107	20.397	0.0108	14.886	0.0170	14.886
55	1 DW	0	91	0.0110	4.701	0.0109	20.776	0.0110	14.886	0.0173	14.886
56	1 DW	0	93	0.0112	4.781	0.0111	21.155	0.0112	14.886	0.0176	14.886
57	1 DW	0	95	0.0114	4.861	0.0113	21.534	0.0114	14.886	0.0179	14.886
58	1 DW	0	97	0.0116	4.941	0.0115	21.913	0.0116	14.886	0.0182	14.886
59	1 DW	0	99	0.0118	5.021	0.0117	22.292	0.0118	14.886	0.0185	14.886
60	1 DW	0	101	0.0120	5.101	0.0119	22.671	0.0120	14.886	0.0188	14.886
61	1 DW	0	103	0.0122	5.181	0.0121	23.050	0.0122	14.886	0.0191	14.886
62	1 DW	0	105	0.0124	5.261	0.0123	23.429	0.0124	14.886	0.0194	14.886
63	1 DW	0	107	0.0126	5.341	0.0125	23.808	0.0126	14.886	0.0197	14.886
64	1 DW	0	109	0.0128	5.421	0.0127	24.187	0.0128	14.886	0.0200	14.886
65	1 DW	0	111	0.0130	5.501	0.0129	24.566	0.0130	14.886	0.0203	14.886
66	1 DW	0	113	0.0132	5.581	0.0131	24.945	0.0132	14.886	0.0206	14.886
67	1 DW	0	115	0.0134	5.661	0.0133	25.324	0.0134	14.886	0.0209	14.886
68	1 DW	0	117	0.0136	5.741	0.0135	25.703	0.0136	14.886	0.0212	14.886
69	1 DW	0	119	0.0138	5.821	0.0137	26.082	0.0138	14.886	0.0215	14.886
70	1 DW	0	121	0.0140	5.901	0.0139	26.461	0.0140	14.886	0.0218	14.886
71	1 DW	0	123	0.0142	5.981	0.0141	26.840	0.0142	14.886	0.0221	14.886
72	1 DW	0	125	0.0144	6.061	0.0143	27.219	0.0144	14.886	0.0224	14.886
73	1 DW	0	127	0.0146	6.141	0.0145	27.598	0.0146	14.886	0.0227	14.886
74	1 DW	0	129	0.0148	6.221	0.0147	27.977	0.0148	14.886	0.0230	14.886
75	1 DW	0	131	0.0150	6.301	0.0149	28.356	0.0150	14.886	0.0233	14.886
76	1 DW	0	133	0.0152	6.381	0.0151	28.735	0.0152	14.886	0.0236	14.886
77	1 DW	0	135	0.0154	6.461	0.0153	29.114	0.0154	14.886	0.0239	14.886
78	1 DW	0	137	0.0156	6.541	0.0155	29.493	0.0156	14.886	0.0242	14.886
79	1 DW	0	139	0.0158	6.621	0.0157	29.872	0.0158	14.886	0.0245	14.886
80	1 DW	0	141	0.0160	6.701	0.0159	30.251	0.0160	14.886	0.0248	14.886
81	1 DW	0	143	0.0162	6.781	0.0161	30.630	0.0162	14.886	0.0251	14.886
82	1 DW	0	145	0.0164	6.861	0.0163	31.009	0.0164	14.886	0.0254	14.886
83	1 DW	0	147	0.0166	6.941	0.0165	31.388	0.0166	14.886	0.0257	14.886
84	1 DW	0	149	0.0168	7.021	0.0167	31.767	0.0168	14.886	0.0260	14.886
85	1 DW	0	151	0.0170	7.101	0.0169	32.146	0.0170	14.886	0.0263	14.886
86	1 DW	0	153	0.0172	7.181	0.0171	32.525	0.0172	14.886	0.0266	14.886
87	1 DW	0	155	0.0174	7.261	0.0173	32.904	0.0174	14.886	0.0269	14.886
88	1 DW	0	157	0.0176	7.341	0.0175	33.283	0.0176	14.886	0.0272	14.886
89	1 DW	0	159	0.0178	7.421	0.0177	33.662	0.0178	14.886	0.0275	14.886
90	1 DW	0	161	0.0180	7.501	0.0179	34.041	0.0180	14.886	0.0278	14.886
91	1 DW	0	163	0.0182	7.581	0.0181	34.420	0.0182	14.886	0.0281	14.886
92	1 DW	0	165	0.0184	7.661	0.0183	34.799	0.0184	14.886	0.0284	14.886
93	1 DW	0	167	0.0186	7.741	0.0185	35.178	0.0186	14.886	0.0287	14.886
94	1 DW	0	169	0.0188	7.821	0.0187	35.557	0.0188	14.886	0.0290	14.886
95	1 DW	0	171	0.0190	7.901	0.0189	35.936	0.0190	14.886	0.0293	14.886
96	1 DW	0	173	0.0192	7.981	0.0191	36.315	0.0192	14.886	0.0296	14.886
97	1 DW	0	175	0.0194	8.061	0.0193	36.694	0.0194	14.886	0.0299	14.886
98	1 DW	0	177	0.0196	8.141	0.0195	37.073	0.0196	14.886	0.0302	14.886
99	1 DW	0	179	0.0198	8.221	0.0197	37.452	0.0198	14.886	0.0305	14.886
100	1 DW	0	181	0.0200	8.301	0.0199	37.831	0.0200	14.886	0.0308	14.886
101	1 DW	0	183	0.0202	8.381	0.0201	38.210	0.0202			

Run #	PL #	NOs	NOs	T	V <sub>0</sub>	Q	dT	cmTDs
505	0	1.92	2.02	81.03	0	0	-0.214	0.418
Pressure Summation								
						-0.192	0.408	

[illegible]

**d) Configuration IV**

【附註】

## References

**e) Configuration v**



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**APR 27 1968**

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**APR 27 1968**

**APR 27 1968**

**APR 27 1968**

**APR 27 1968**

**APR 27 1968**

[illegible]

**APR 27 1968**

[illegible]

## g) Configuration VII

**Fig. B-128 Concluded.**



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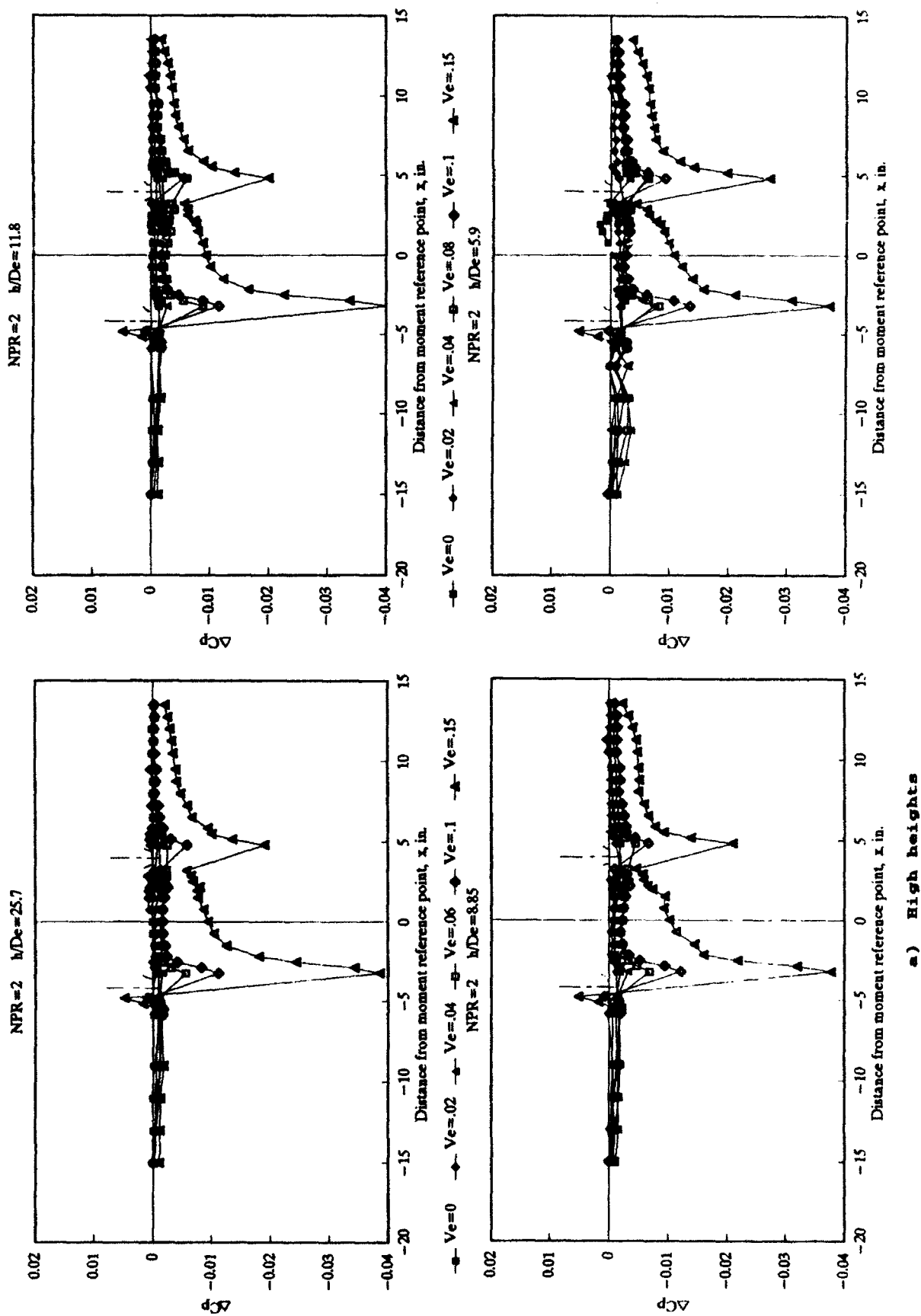
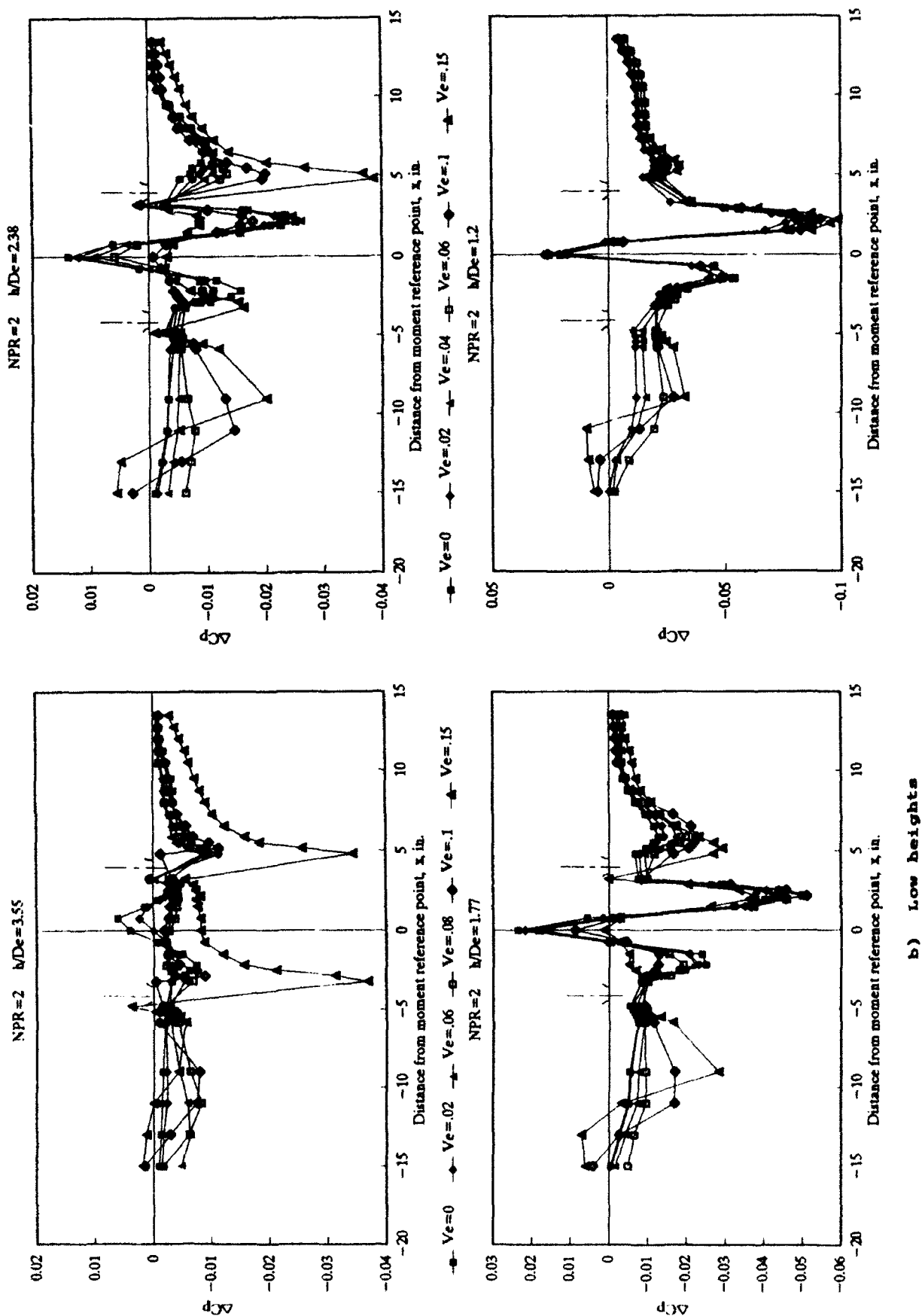
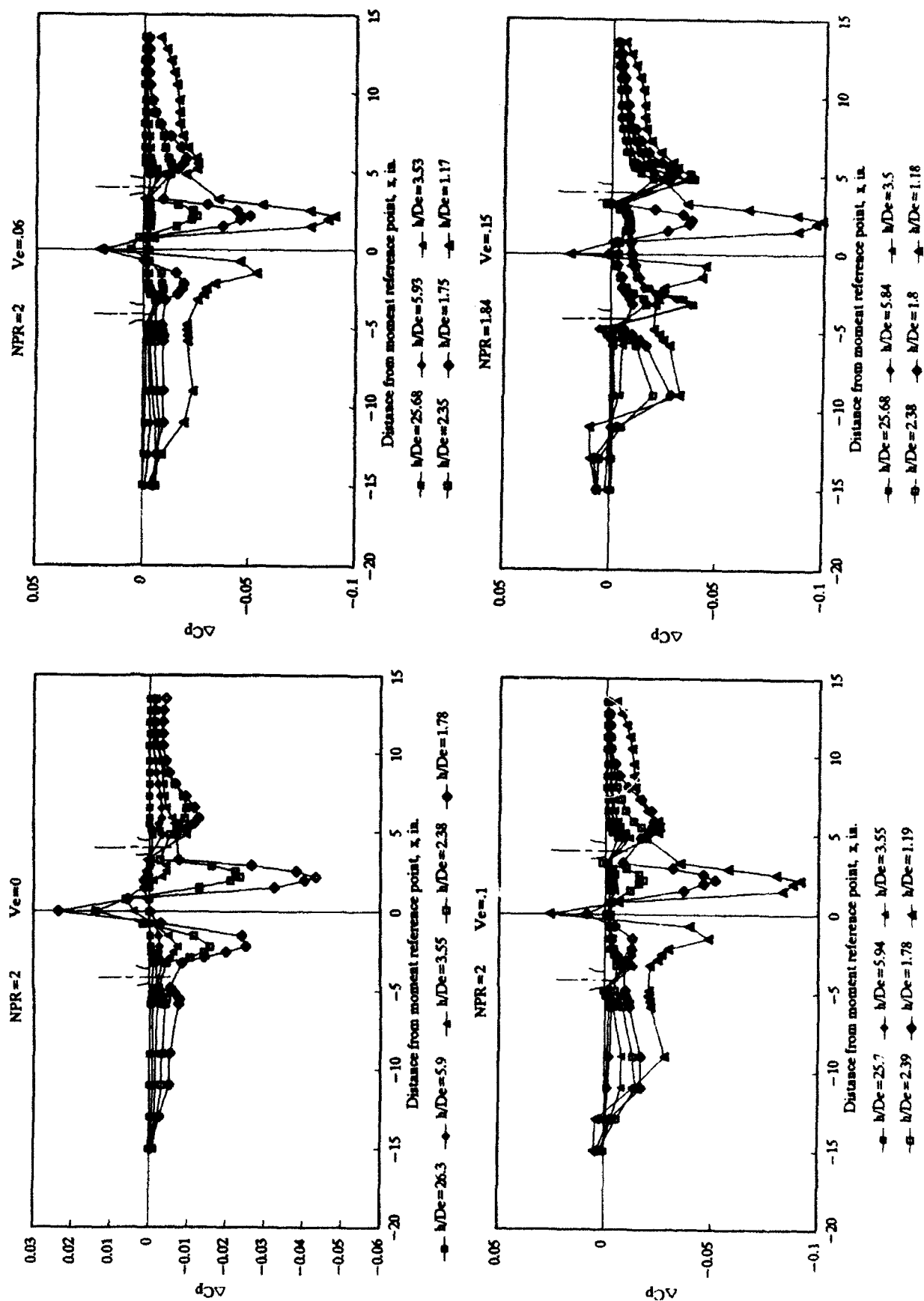


Fig. B-129 Effect of cross flow velocity on the pressure distribution along the centerline of configuration 1.



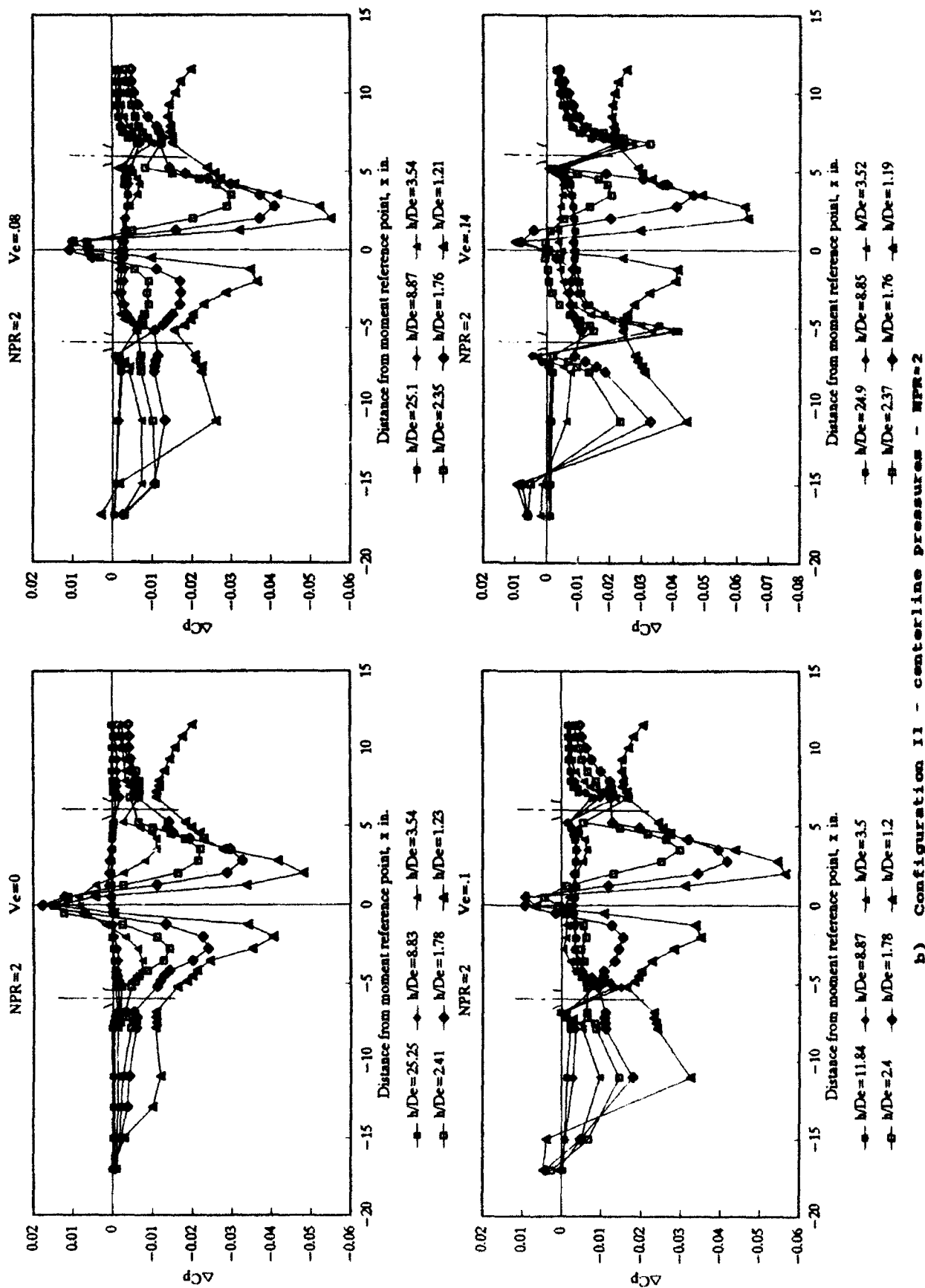
b) Low heights

Fig. B-129 Concluded.



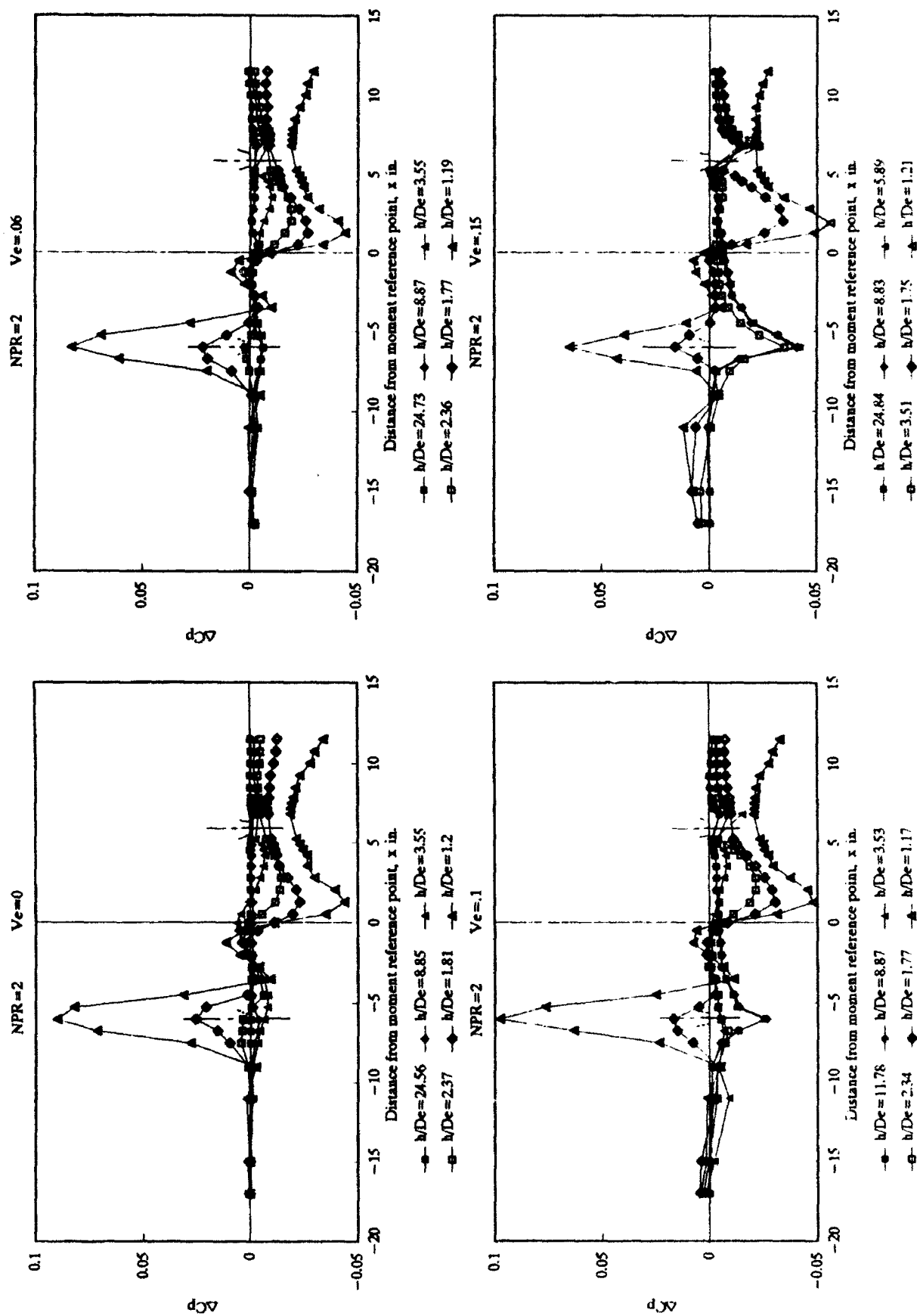
a) Configuration I - centerline pressures -  $NPR=2$

Fig. B-130 Effect of height on the pressure distribution along the centerline



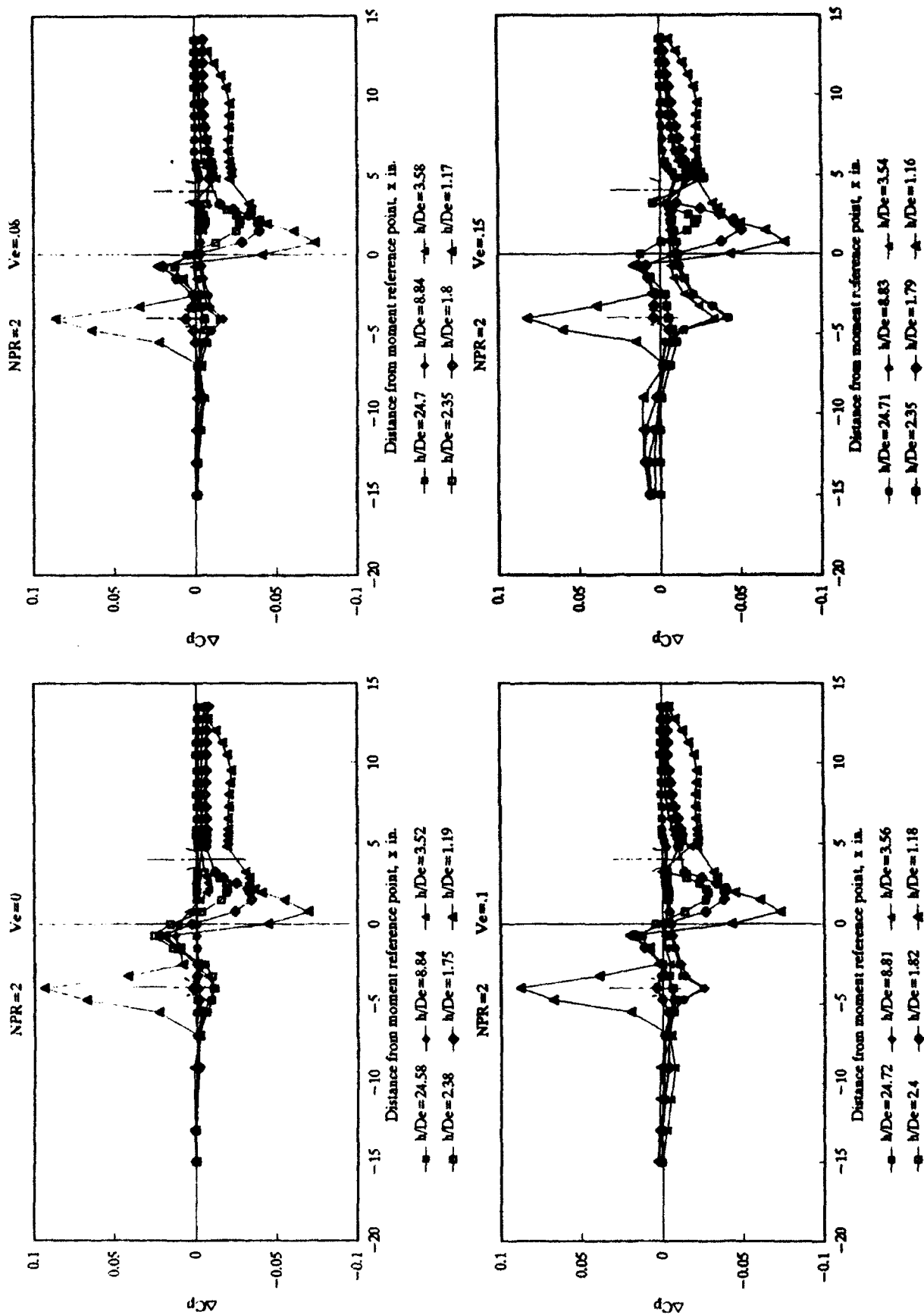
b) Configuration 11 - centerline pressures - NPR=2

Fig. B-130 Continued.



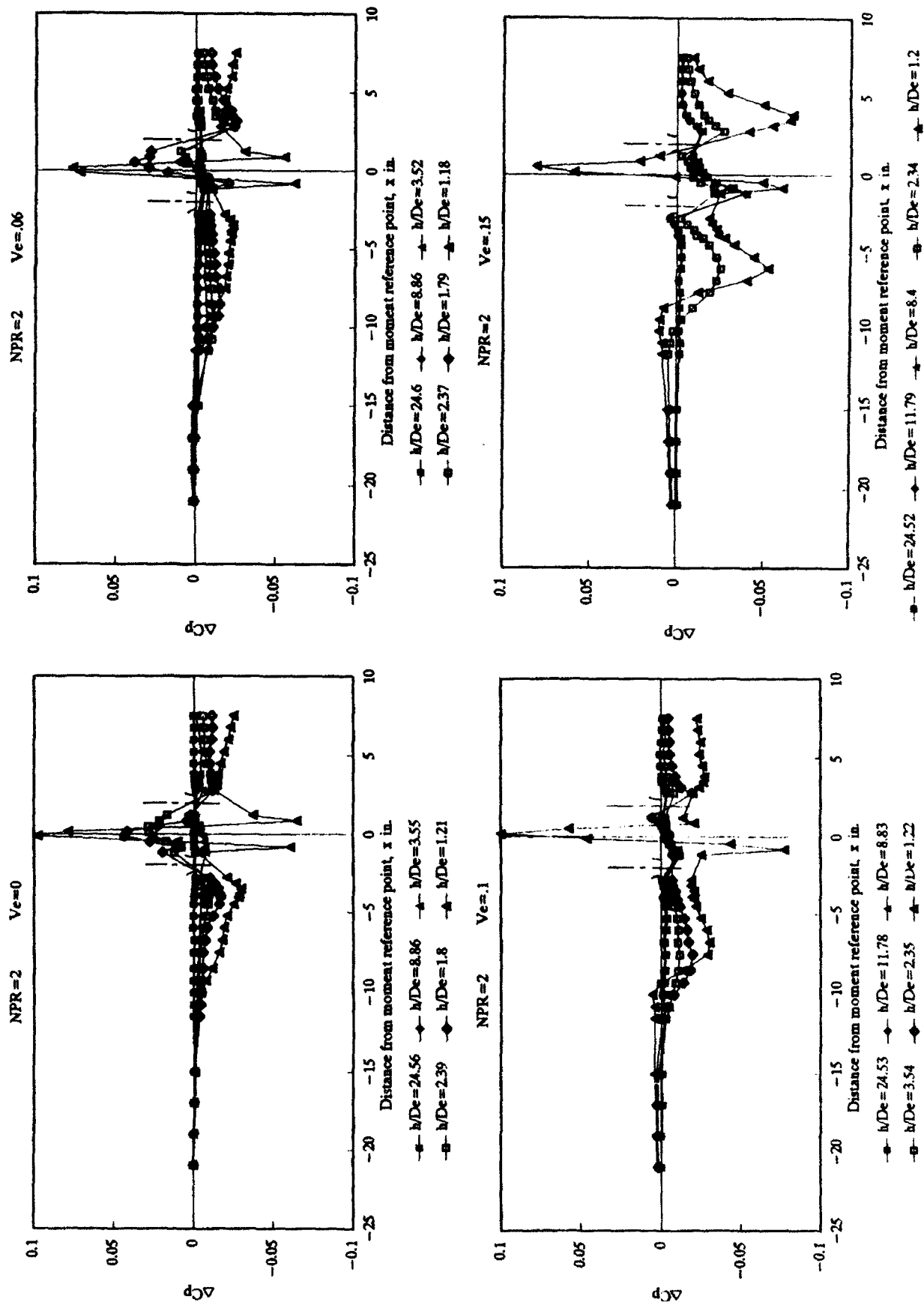
c) Configuration III - centerline pressures - NPR=2

Fig. B-130 Continued.



d) Configuration IV - centerline pressures -  $NPR=2$

Fig. B-130 Continued.



e) Configuration V - centerline pressures -  $NPR=2$

Fig. B-130 Continued.



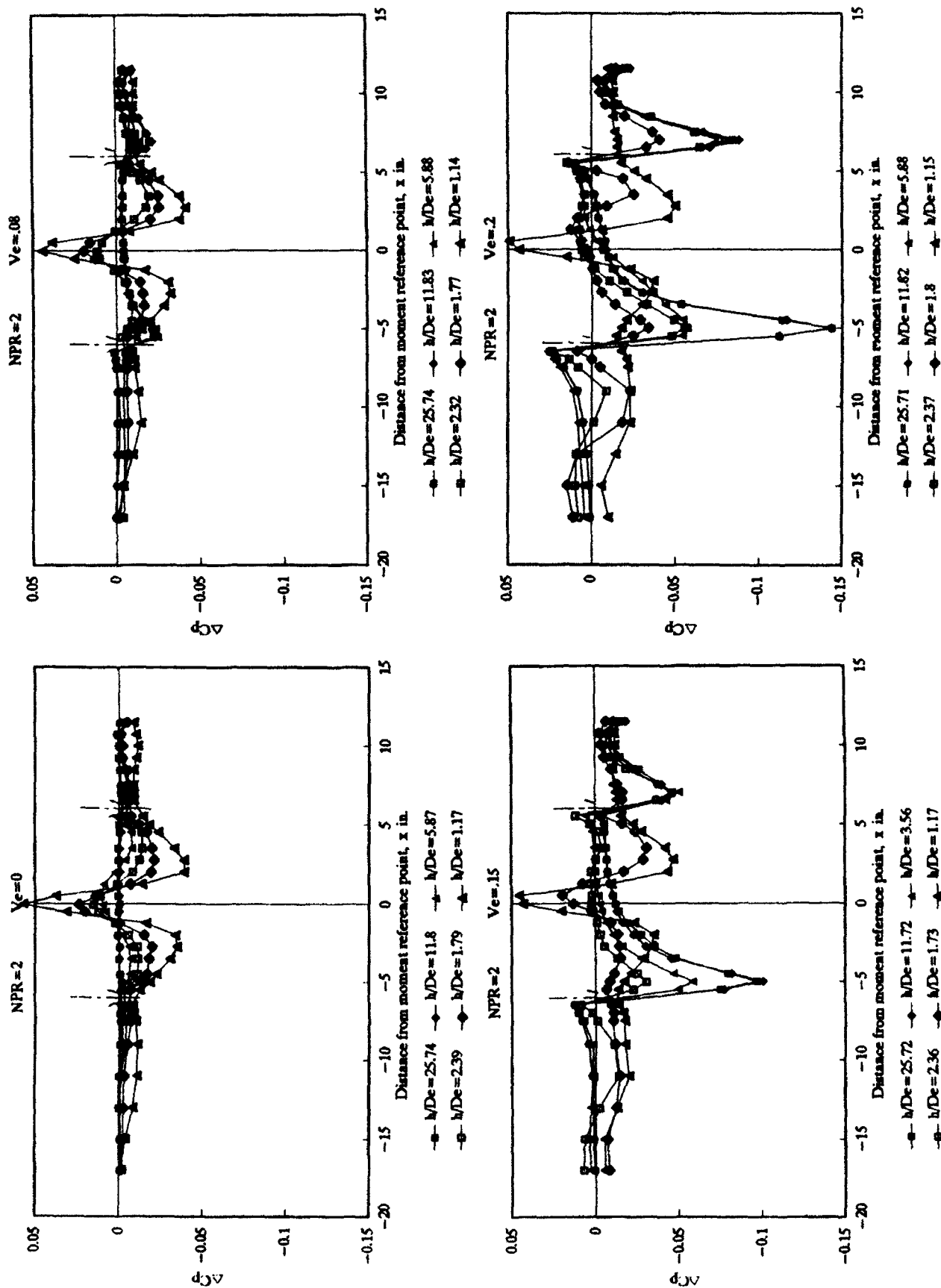
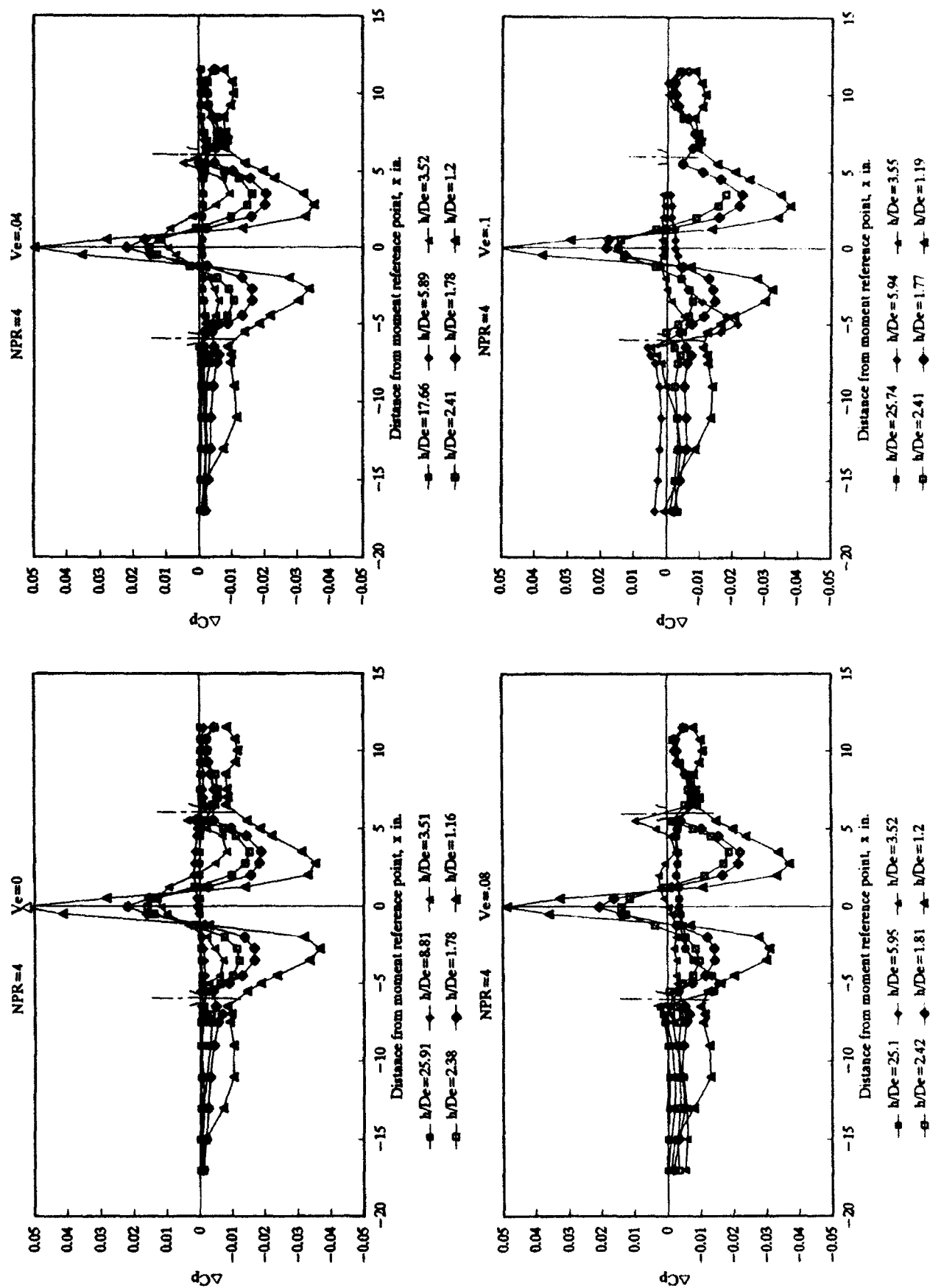
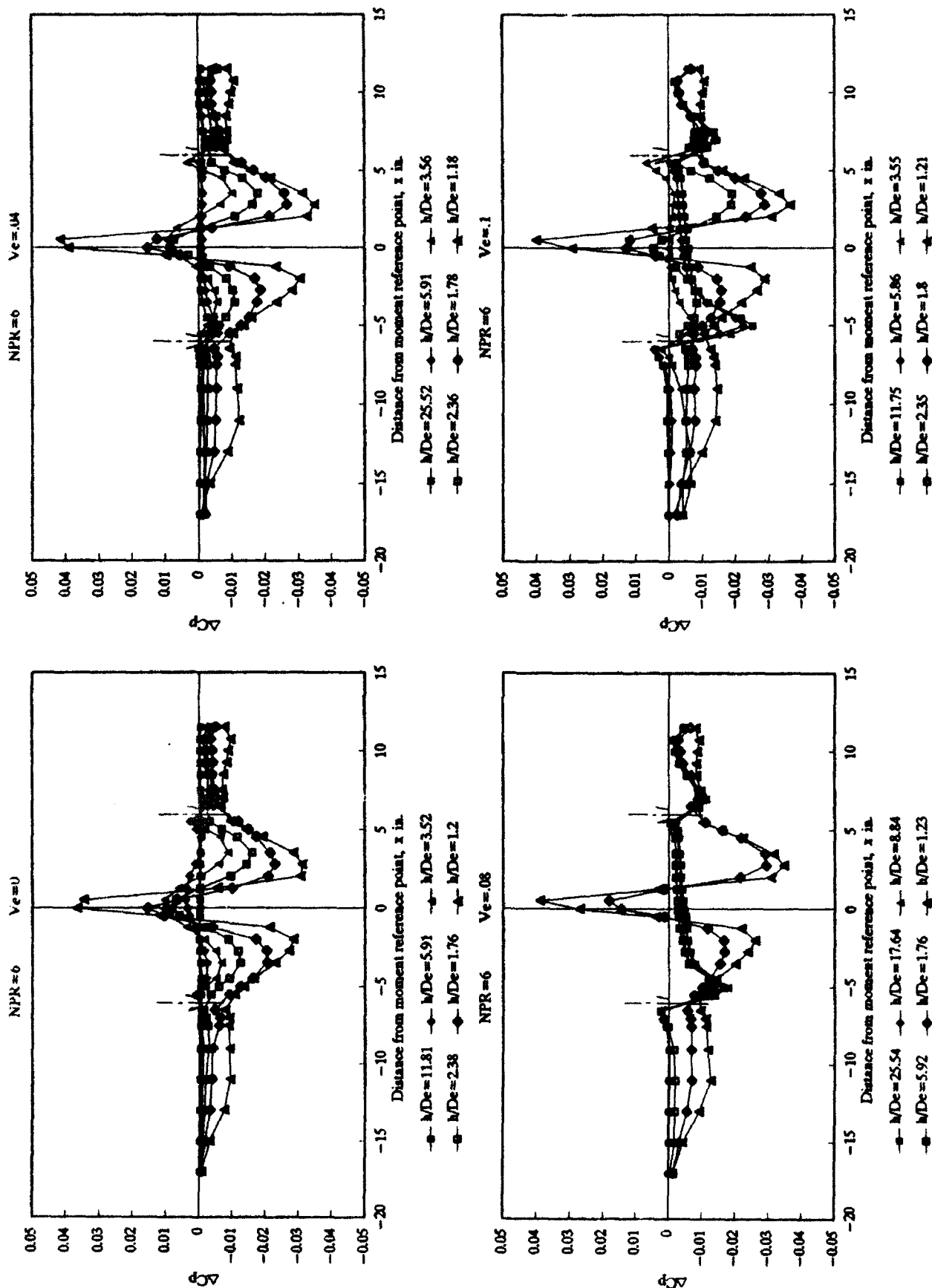


Fig. 8-130 Continued.

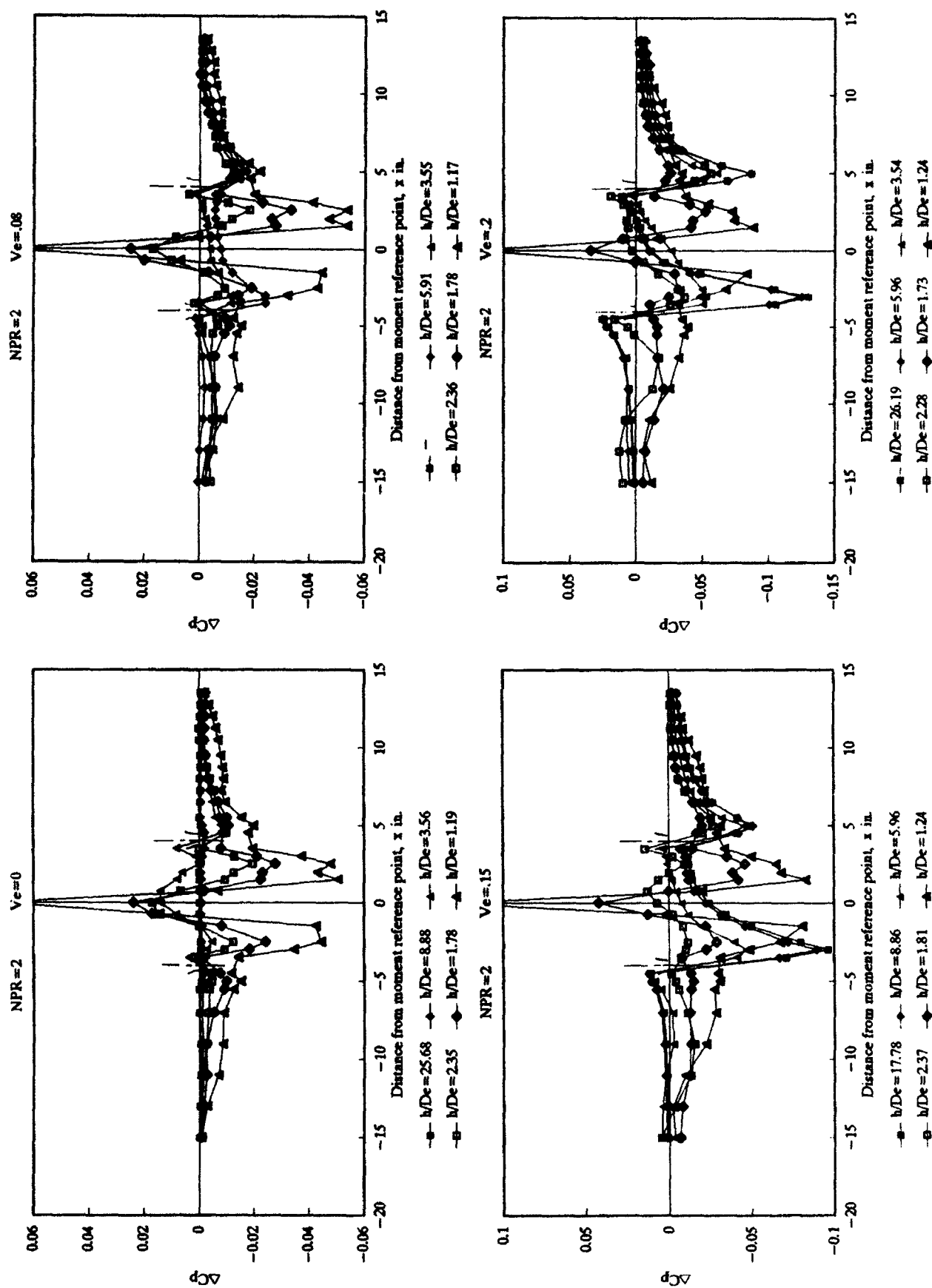


g) Configuration VI - centerline pressures -  $NPR=4$



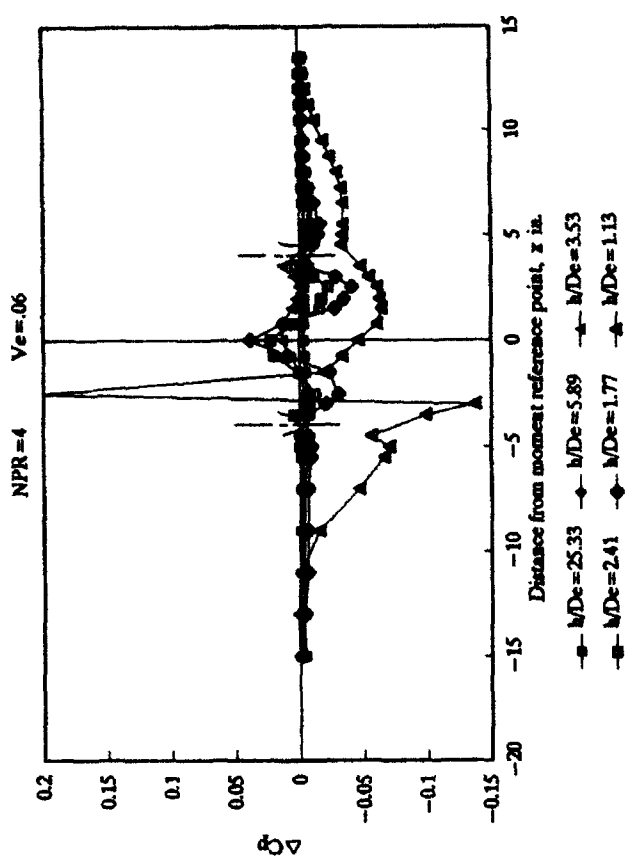
b) Configuration VI - centerline pressures -  $NPR=6$

Fig. B-130 Continued.

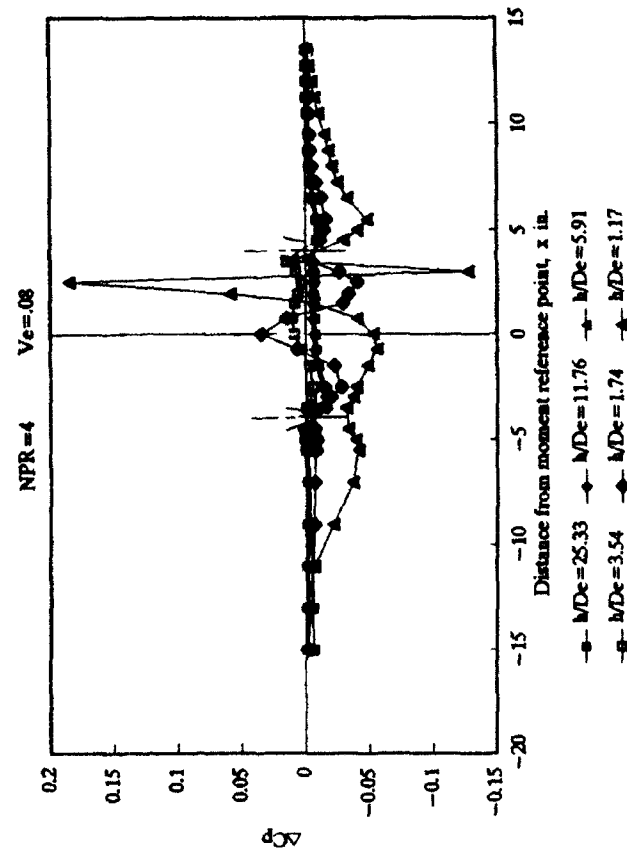
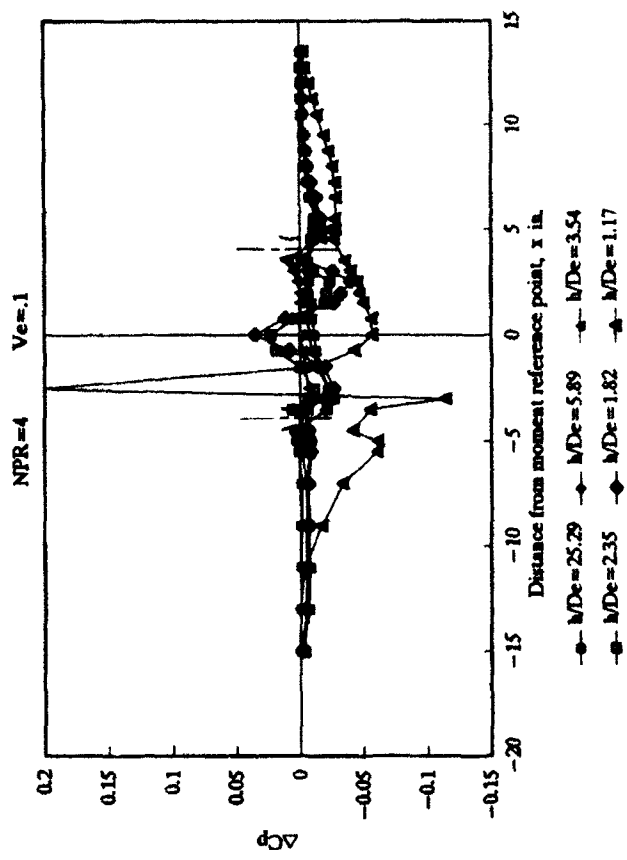


i) Configuration VII - centerline pressures - NPR=2

Fig. B-130 Continued.

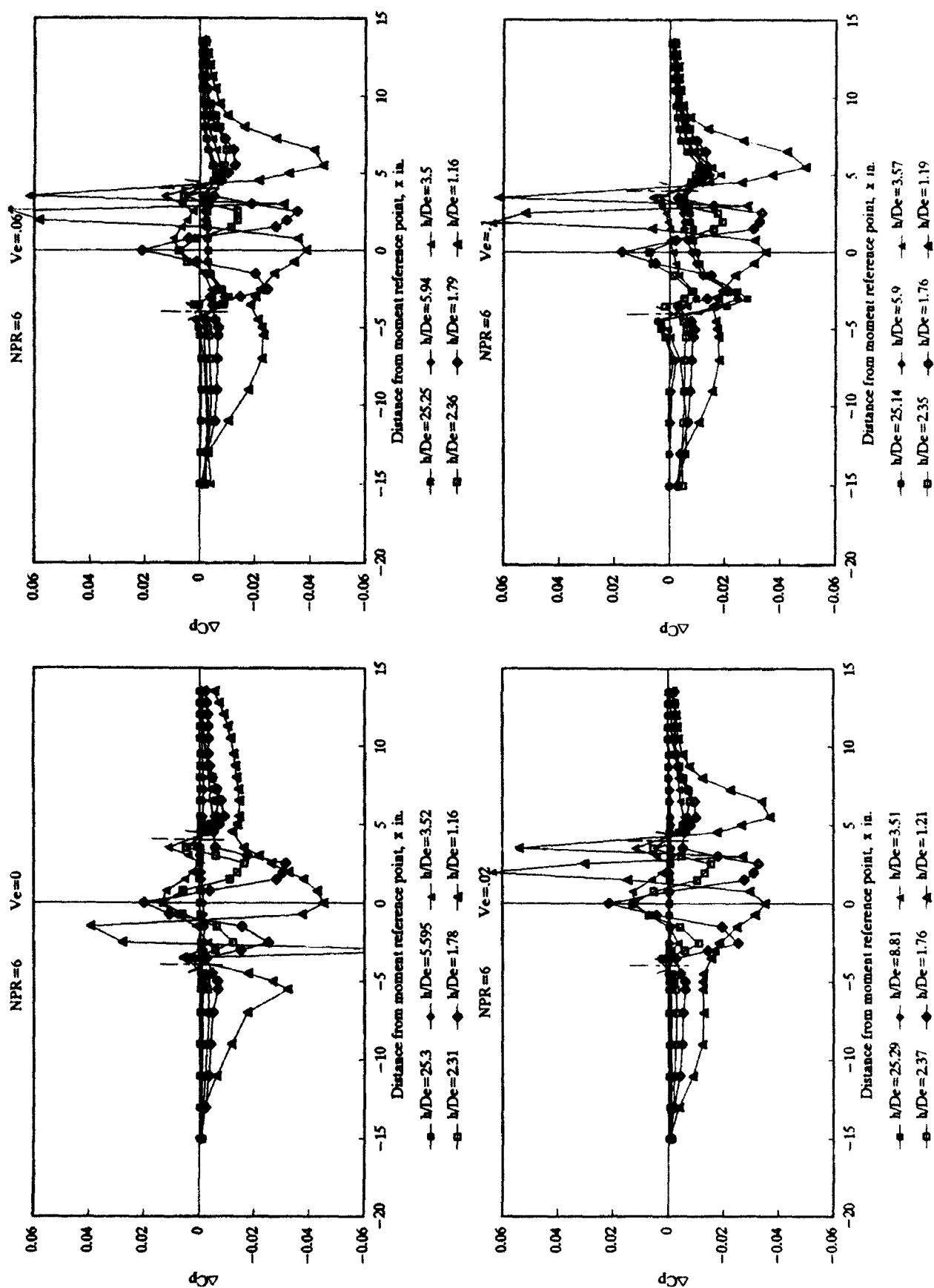


4-1



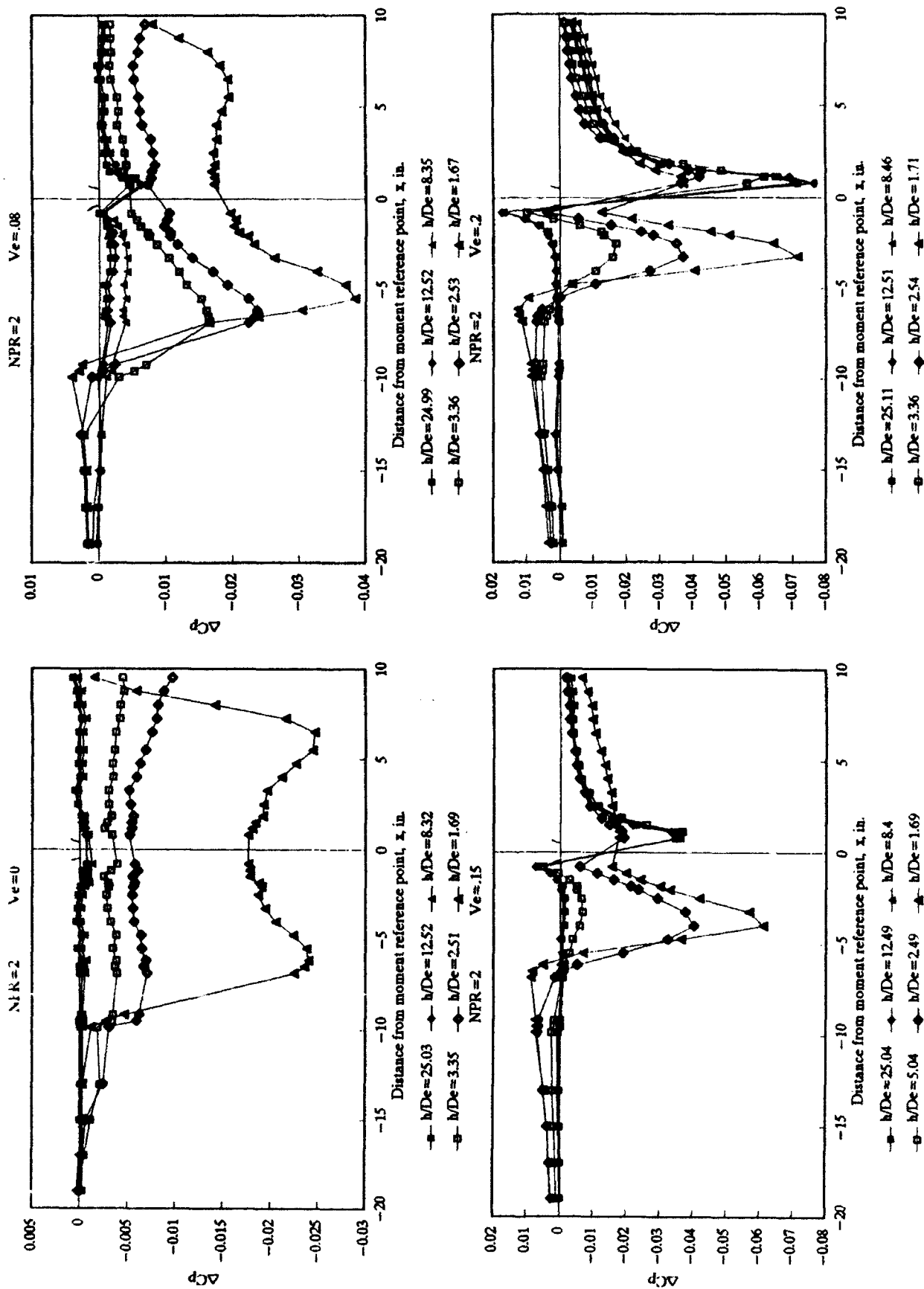
j) Configuration VII - centerline pressures - NPR=4

Fig. B-130 Continued.

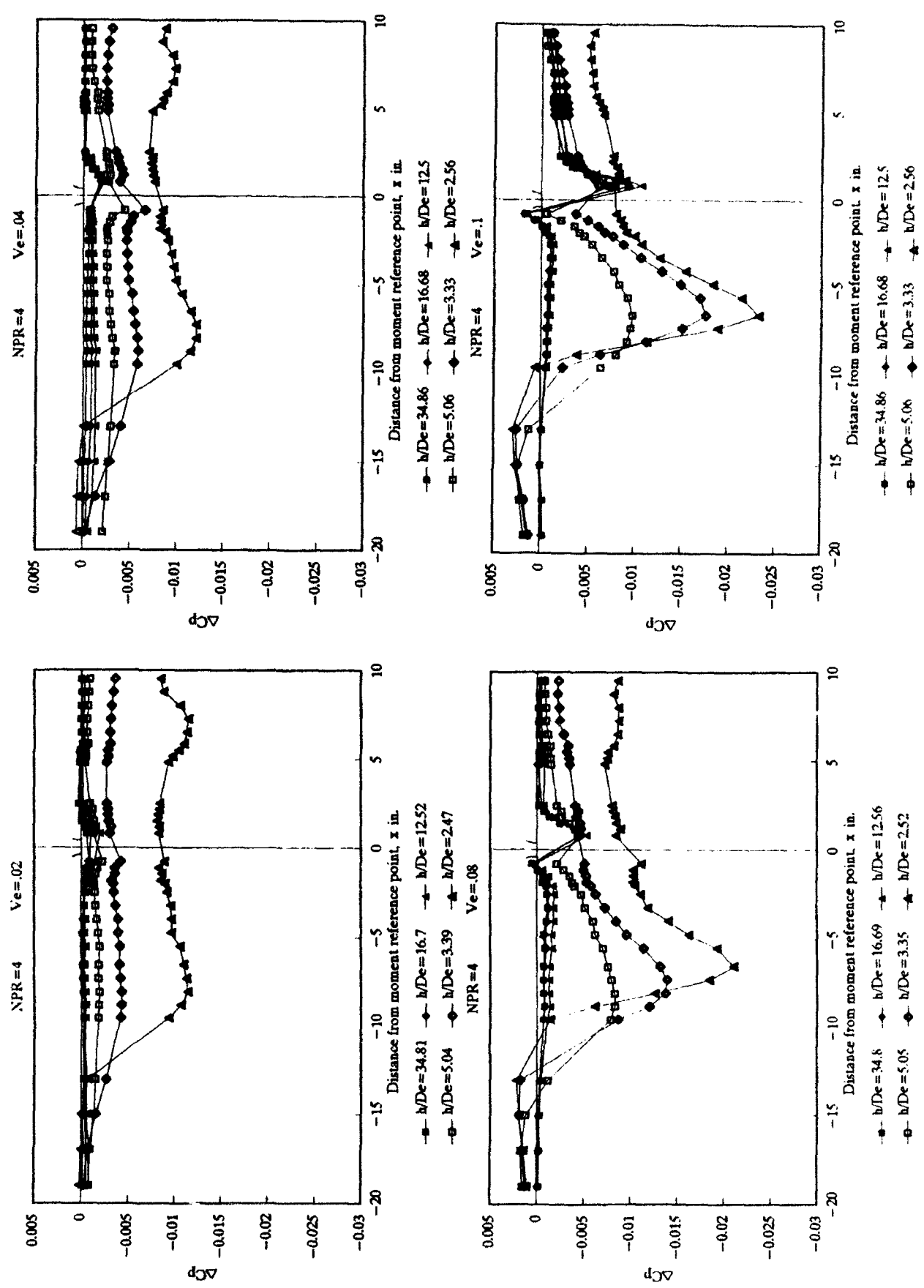


k) Configuration VII - centerline pressures -  $NPR=6$

Fig. B-130 Continued.



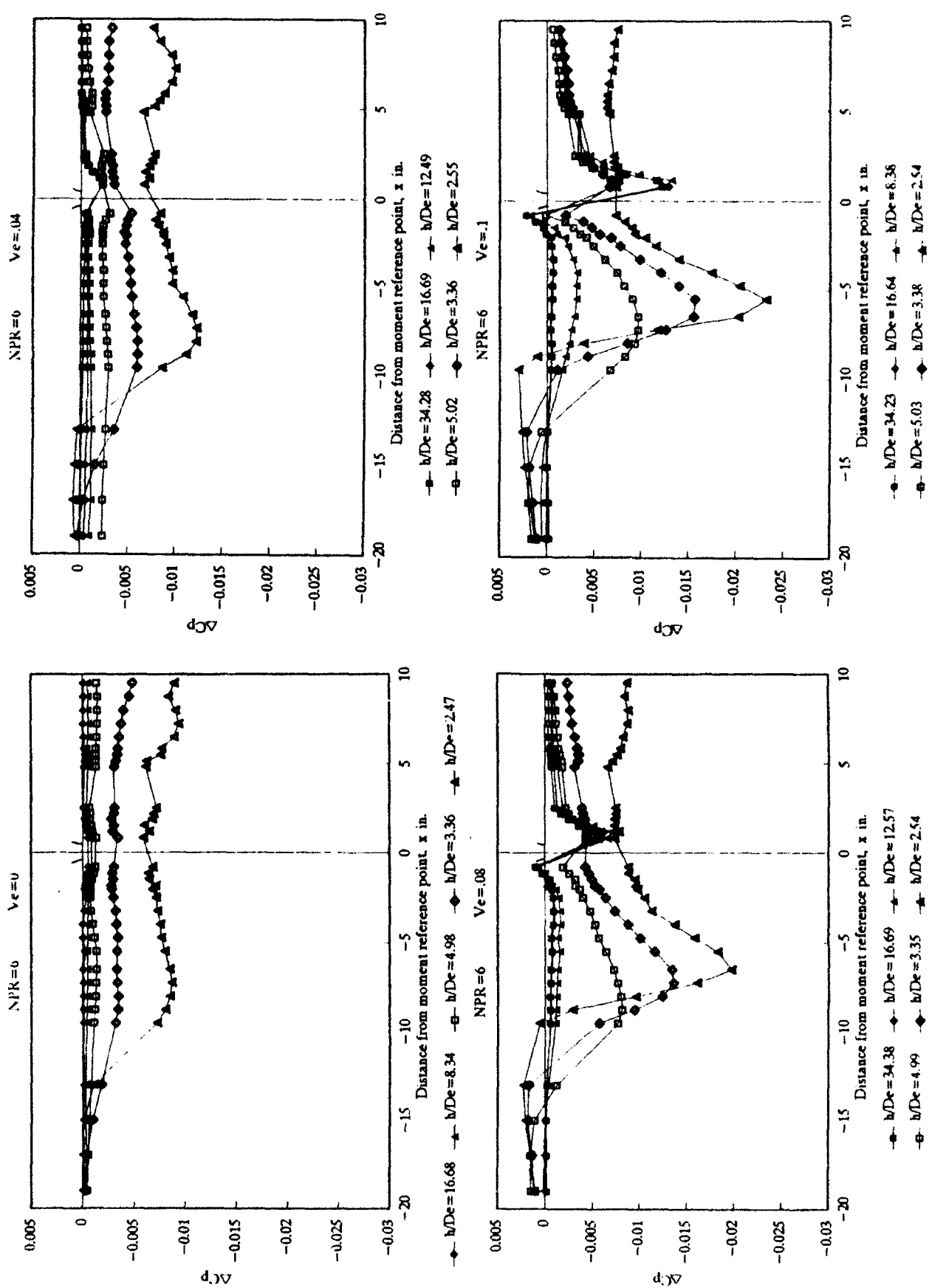
1) One circular jet - at station 20 - NPR=2  
centerline pressures  
Fig. B-130 Continued.



m) One circular jet - at station 20 -  $NPR=4$

centerline pressures  
Fig. B-130 Continued.

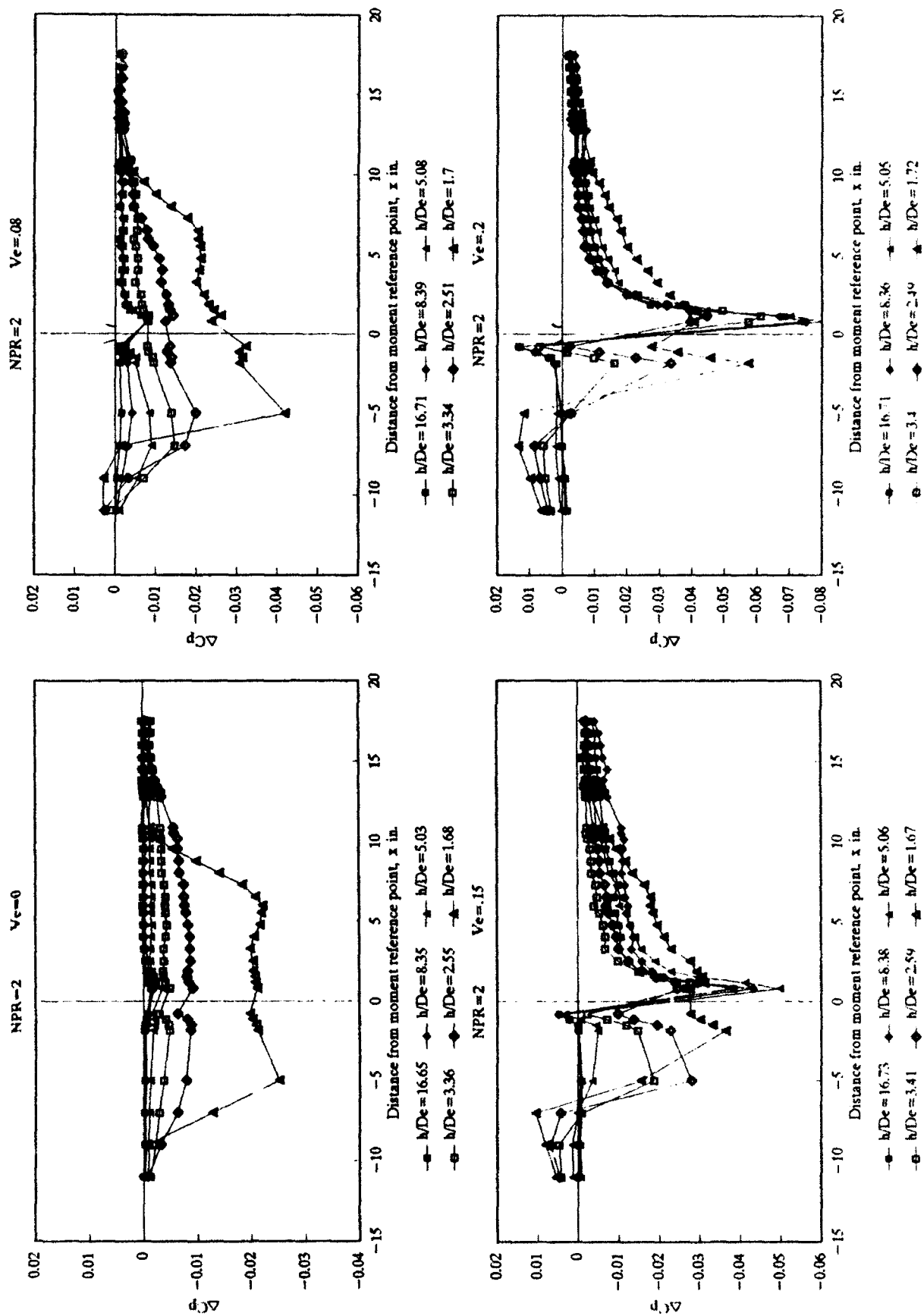




n) One circular jet - at station 20 - NPR=6

centerline pressures

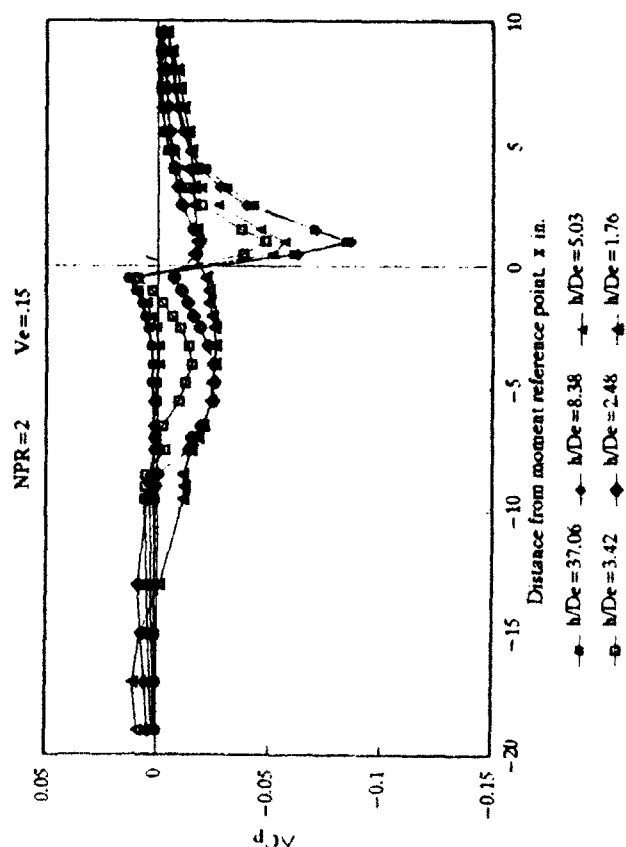
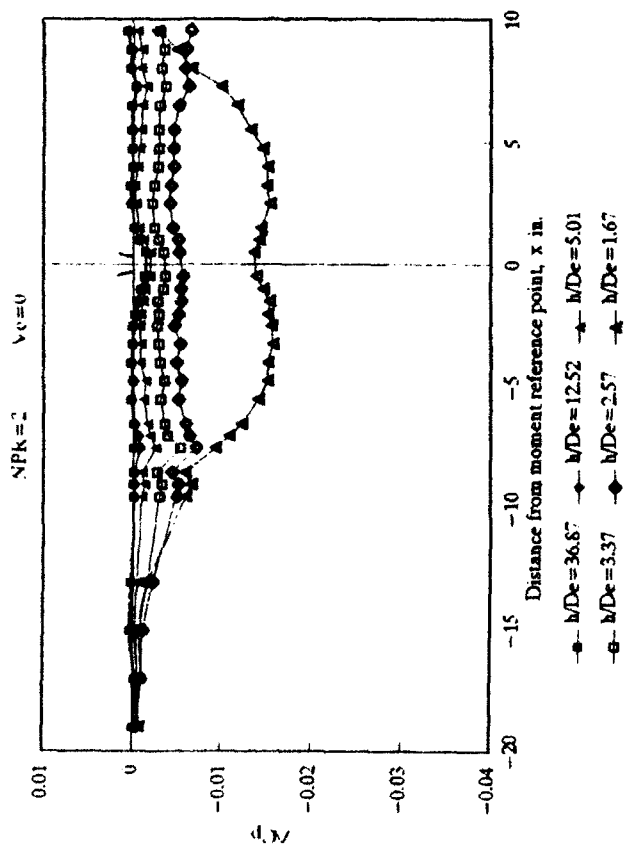
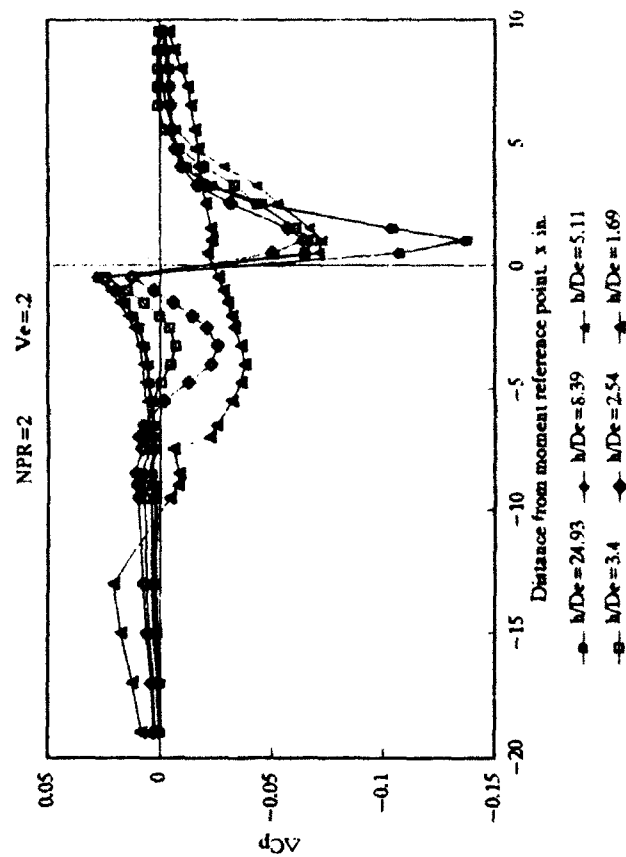
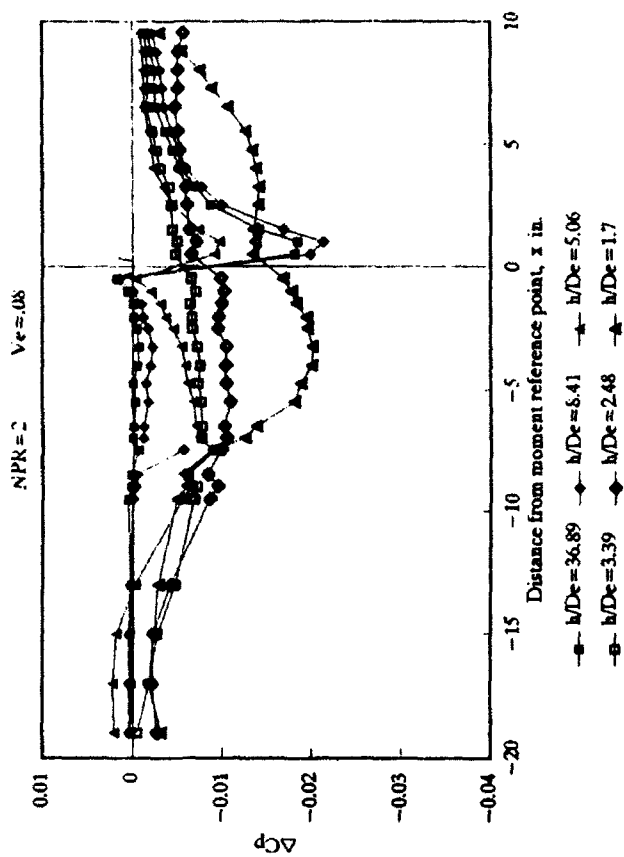
Fig. B-130 Continued.



o) One circular jet - at station 12 - NPR=2

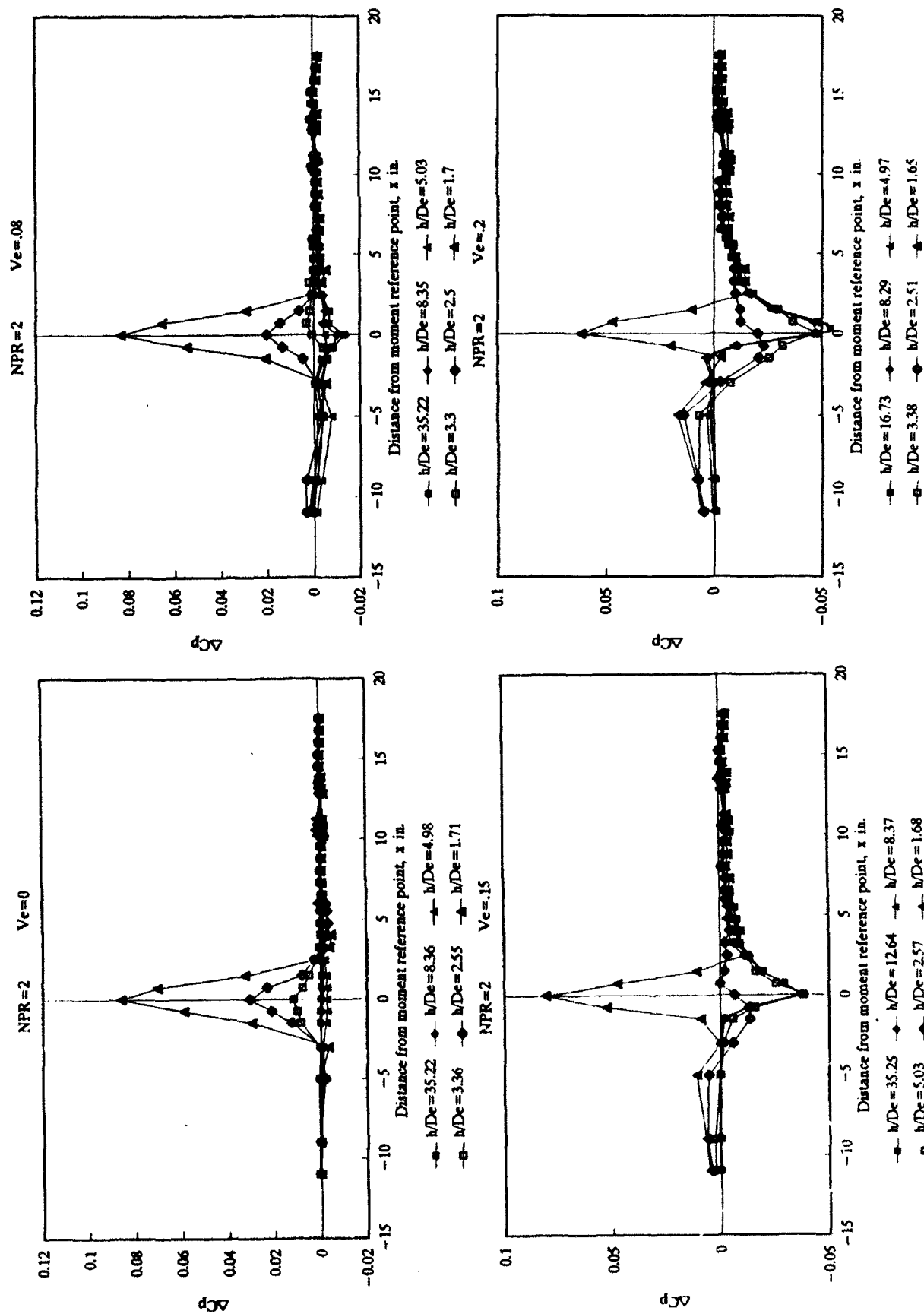
centerline pressures

Fig. B-130 Continued.



p) One rectangular jet - at station 20 - NPR=2

centerline pressures  
Fig. P-130 Continued.



q) Side-by-side pair - at station 12 - NPR=2

centerline pressures

Fig. B-130 Concluded.

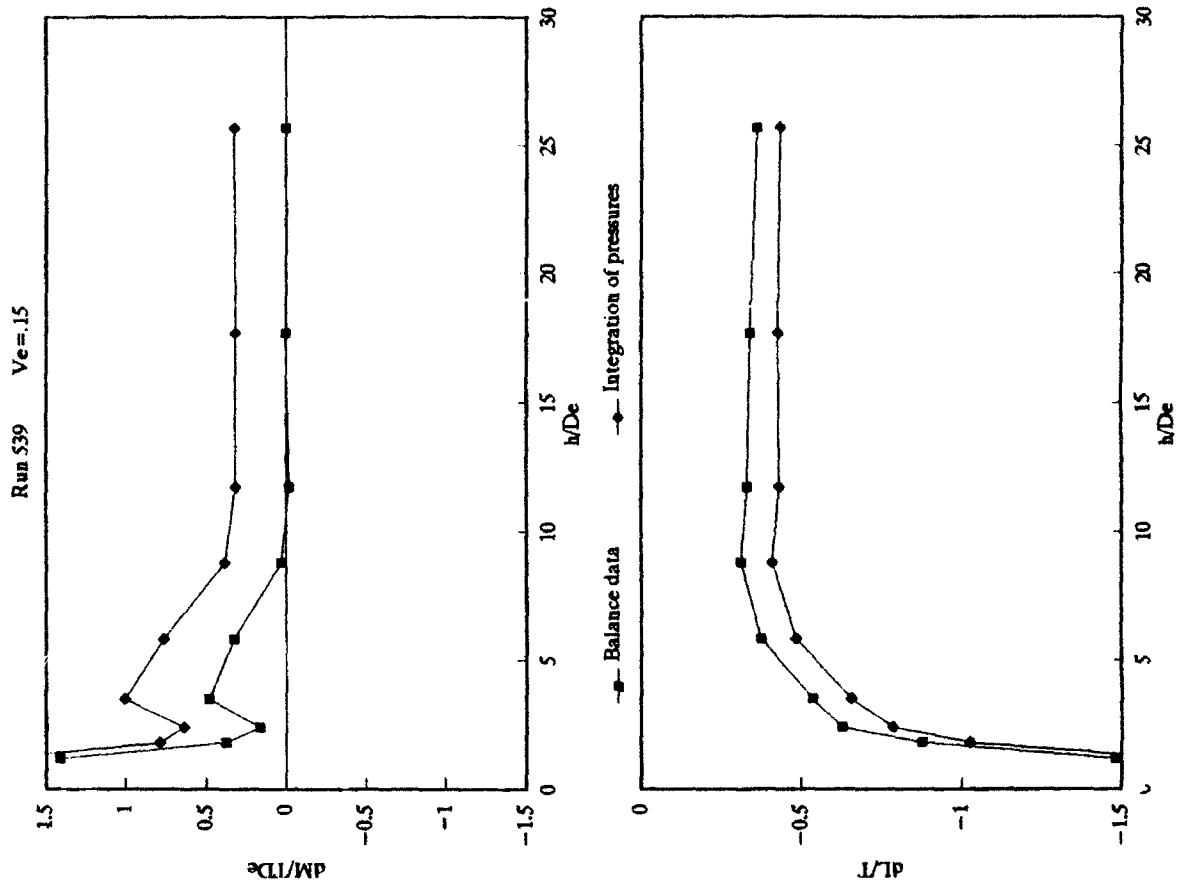
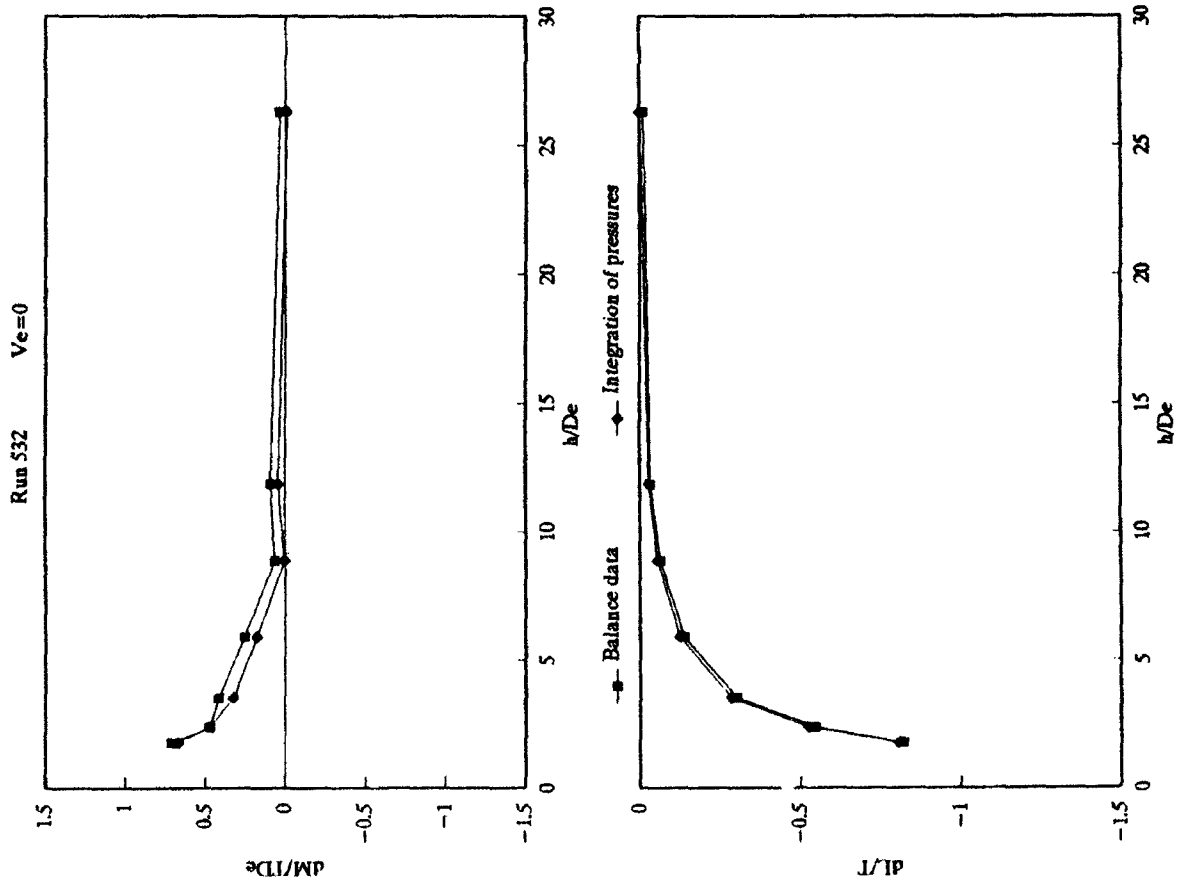


Fig. B-131 Comparison of jet induced lift loss and pitching moment from integration of pressures with balance data - Configuration 1 - NPR#2.